

**Verifone®**

**P630 - 2**

*Installation Guide*



P630 - 2 Installation Guide  
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This guide is the primary source of information for setting up and installing the P630 device.

## Audience

This guide is useful to the engineers who are involved in installing and configuring the P630 device.

## Organization

This guide is organized as follows:

Chapter 1, [Overview](#). Provides an overview of the P630 device.

Chapter 2, [Setup](#). Explains how to set up and install the P630 device, select a location and establish a connection with other devices.

Chapter 3, [Specifications](#). Discusses power requirements and dimensions of the P630 device.

Chapter 4, [Maintenance and Cleaning](#). Explains how to maintain your P630 device.

Chapter 5, [Service and Support](#). Provides information on how to contact your Verifone representative or service provider and information on how to order accessories and documentation from Verifone.

Chapter 6, [Troubleshooting Guidelines](#). Provides troubleshooting guidelines, should you encounter a problem in device installation.

[Appendix A, Caution and Warning Messages](#). Shows the UL/cUL certification-compliant translations of all Warning and Caution messages in this installation guide.

## Related Documentation




To learn more about the P630 device, refer to the following set of documents:

|   |                   |
|---|-------------------|
| <i>P630 Certifications and Regulations</i>  | VPN DOC560-111-EN |
| <i>P630 Quick Installation Guide</i>        | VPN DOC560-102-EN |
| <i>P630 Camera Quick Installation Guide</i> | VPN DOC560-103-EN |

## Conventions and Acronyms

This section describes the conventions and acronyms used in this guide. Table 1 describes these conventions and provides examples of their use.

**Table 1 Document Conventions**

| Convention  | Meaning   | Example  |
|---|---|--|
| Blue  | Text in blue indicates terms that are cross-references.                     | See Guide Conventions.   |
| <i>Italics</i>  | Italic typeface indicates book titles or emphasis.                          | You <i>must</i> not use this unit underwater.                                |
|    | The pencil icon is used to highlight important information.                 | RS-232-type devices do not work on the P630 communication port.              |
|   | The caution symbol indicates hardware or software failure, or loss of data. | The unit is not waterproof or dustproof and is intended for indoor use only. |
|  | The lightning symbol is used as a warning when a bodily injury might occur. | Due to the risk of shock do not use the unit near water.                     |

Various acronyms are used in place of full definition. Table 2 represents acronyms and their definitions.

**Table 2 Acronym Definitions**

| Acronym | Definitions  |
|---------|--|
| 3DES    | Triple Data Encryption Algorithm   |
| AC      | Alternating Current  |
| ANSI    | American National Standards Institute  |
| cUL     | Underwriters' Laboratories of Canada   |
| DC      | Direct Current   |
| DUKPT   | Derived Unique Key Per Transaction Method as defined in the VISA's <i>POS Equipment Requirement: PIN processing and Data Authentication</i> , International Version 1.0, August 1988 |
| ECR     | Electronic Cash Register   |
| EMV     | Europay, MasterCard, and Visa  |
| ISO     | International Organization for Standardization   |
| MRA     | Merchandise Return Authorization   |
| MSAM    | Multiple Secure Access Module  |

**Table 2**      **Acronym Definitions** (continued)

| Acronym | Definitions                    |
|---------|--------------------------------|
| LAN     | Local Area Network             |
| LCD     | Liquid Crystal Display         |
| LED     | Light-Emitting Diode           |
| PED     | PIN Entry Device               |
| PIN     | Personal Identification Number |
| POS     | Point-of-Sale                  |
| RS-232  | Recommend Standard number 232  |
| SAM     | Secure Access Module           |
| TF      | Trans Flash                    |
| UL      | Underwriters Laboratories      |
| USB     | Universal Serial Bus           |
| VPN     | Verifone Part Number           |

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### Overview

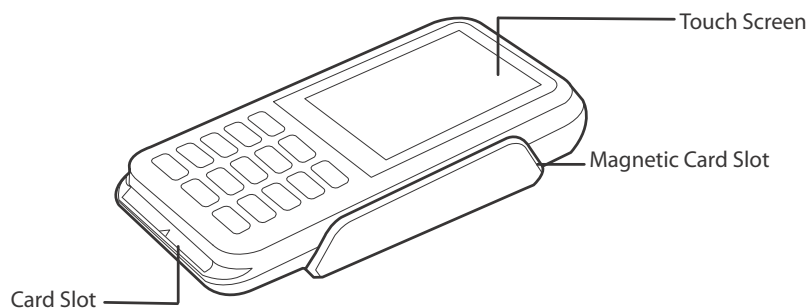
The P630 is Verifone’s next-generation integrated retail PINpad device. Its touchscreen functionality and sophisticated design are perfect for high-end retail establishments.

The P630 device is a consumer-facing handheld device. It can also be fix-mounted in integrated retail scenarios. The product’s design is equally appealing as a handheld PINpad and robust enough to look and function appropriately in a fixed mount setting.

The Verifone P630 device allows electronic payment transactions to be processed. This payment processing solution with a fully integrated POS can scan barcodes, QR codes and products with the help of an integrated camera.

It can run on Android applications, like loyalty and inventory. It also enables clients to remotely monitor and update their devices using Verifone’s estate management solution. The P630 device supports Bluetooth and Wi-Fi and meets PCI-PTS 6.x SRED requirements for maximum security.

The Verifone P630 device supports all payment methods - magnetic stripe, EMV, and NFC/Contactless Reader, including Apple Pay, Google Pay, and Samsung Pay mobile wallets. The easy-to-read color touch screen supports all payment-related user interactions and keypad for secure PIN entry.



**Figure 1 P630 Touch**

### Features and Benefits

The P630 includes the following features:

- Capacitive touch **LCD**

- Secure keypad supporting 3x5 matrix containing 0-9, \*, #, Cancel, Backspace/ Clear and Enter keys
  - Supports **telco-style format**
  - Dual-function Backspace/Clear key
  - Customer-entry for Cancel and Enter keys

**Back Functions** The rear of the P630 device shows the following:

- **Cable connector compartment.**
- **Threaded grommets** for attaching the mounting plate.
- **A dual-stack (uSD+2SAMs)** is built into the back of the unit to support stored-value card programs or other merchant card requirements.

### Exceptional Ease of Use and Ergonomics

- Sleek and stylish shape occupies minimal counter space.
- Bold, ergonomic design fits comfortably in the palm of a hand.
- Large, hard-rubber keys provide improved tactile feedback, minimizing errors and maximizing ease of use for consumers of all ages.
- Intuitive telco-style interface and colored control keys simplify training and reduce support requests.
- 320 (RGB) x 480 TFT (HVGA) display with a capacitive touch panel.
- The rugged and reliable design.
- Connects with most POS payment terminals.
- Supports payment transactions in a variety of payment environments.

### Critical Security Protection

- Offers a choice of Master/Session or DUKPT key-management method to protect PIN-based transactions.
- Offers secure, reliable PIN input for expanding the range of PIN-based transactions.
- PCI-compliant for secure solutions, meeting the PED standard.
- Meets ISO and ANSI standards for PIN encryption, key management and MAC.
- The rugged and reliable design absorbs hard knocks found at point-of-sale counters.
- Connects with most POS payment terminals, PCs and ECRs.

### Security

- Incorporates tamper-detection circuitry to resist unauthorized intrusion and supports a broad spectrum of software-based security features.
- PCI PTS 6.x approved for debit and other PIN-based transactions.
- EMV Level 1 Type Approval.
- Supports reliable security available including TLS/SSL.

- With Kensington lock feature resident in the terminal as part of the case.

### Contactless Capability

- Advanced contactless architecture that future-proofs investment with a single contactless interface (SingleCI), SoftSAMs and side-by-side application architecture.
- On-screen tap zone for optimized user experience.
- Accepts EMV, NFC and mag-stripe contactless payments as well as PIN based transactions.

### Wireless Communication Capability

- Bluetooth:
  - Supports BT v4.2 LE
- WLAN:
  - Supports 2.4GHz/5.0GHz frequency band
  - Supports 802.11 a/b/g/n/ac up to 433 Mbps
  - Supports AP mode

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## Setup

This chapter describes the setup procedure for the P630 in the following sections:

- Device Location
- PIN Protection Measures
- Inside the Shipping Carton
- SAM/TF Cards
- Power Supply
- Cable Connections
- Smart Card Reader
- Magnetic Stripe Card Reader Use
- Contactless Transactions
- Optional Accessories

### Device Location

Following are the guidelines used to select an ideal location for the terminal.

#### **Ease of Use**

- Select a location convenient for both merchant and cardholder.
- Select a flat support surface, such as a countertop or table, or mount it on a mounting stand supplied by Verifone.
- Select a location near a power outlet, POS, ECR, or computer connected to the terminal. Do not string cables or cords across a walkway for safety.

#### **Environmental Factors**

- Do not use the unit where there is high heat, dust, humidity, moisture, caustic chemicals, or oils.
- Keep the unit away from direct sunlight and anything that radiates heat, such as a stove or a motor.
- Do not use the terminal outdoors.



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The terminal is not waterproof or dustproof. It is intended for indoor use only. Any damage to the unit from exposure to rain or dust can void any warranty.

---

#### **Electrical Considerations**

- Avoid using this product during electrical storms.
- Avoid locations near electrical appliances or other devices that cause excessive voltage fluctuations or emit electrical noise (for example, air

conditioners, electric motors, neon signs, high-frequency or magnetic security devices, or computer equipment).

- Do not use the terminal near water or in moist conditions.
- Disconnect the device from its POS terminal before cleaning.



Do not use the terminal near water, including a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool to avoid shock or damage.

**Contactless Considerations**

Avoid having metallic objects in the proximity of a contactless antenna. If you need to mount the terminal to vertical or inclined surfaces, use a flat, non-metallic mounting plate.



Using an enclosed metal frame or mount may negatively affect contactless performance.

**PIN Protection Measures**

Use the following techniques to provide effective screening of PIN-Entry Devices (PEDs) during the PIN-entry process. You can use these methods in combination, although in some cases a single method might suffice.

- Position the terminal on the check-in stand in such a way as to block visual observation of the PIN-entry process. Examples include:
  - Visual shields designed on the check-in stand. The shields may be solely for shielding purposes or may be part of the general check-in stand design.
  - Position the terminal so that it is angled in such a way that PIN spying is difficult.
- Install the PED on an adjustable stand that allows consumers to swivel the terminal sideways and/or tilt it forward/backward to a position that makes visual observation of the PIN-entry process difficult.
- Position in-store security cameras so that the PIN-entry keypad is not visible.

The following table describes the two preferred mounting methods and the recommended measures to protect against PIN capture in four observation corridors:

**Table 3 Mounting Methods and Protection Measures**

| Method                   | Cashier                    | Customer in Queue   | Customers Elsewhere | On-site Cameras                       |
|--------------------------|----------------------------|---|---------------------|---------------------------------------|
| Countertop without stand | Use signage behind the PED | Install so that customer is between PED and next in the queue | No action needed    | Do not install within view of cameras |
| Countertop with stand    | No action needed           | Install so that customer is between PED and next in the queue | No action needed    | Do not install within view of cameras |

Verifone also recommends instructions to the cardholder regarding safe PIN-entry. This can be done with a combination of:

- Signage on the PED
- Prompts on the display, possibly with a click-through screen
- Literature at the point of sale
- A logo for safe PIN-entry process

**Ensuring User Privacy**

Use the following guidelines to protect the user’s privacy when he enters his Personal Identification Number (PIN):

- The area of visibility should not be larger than a cone taken from the number 5 key at an angle of 45° and covering an area of 270° directly in front of the user.

**Inside the Shipping Carton**

Open the shipping carton and carefully inspect its contents for possible tampering or shipping damage. The terminal is a secure product. Tampering causes it to cease to function or to operate in an unsecured manner.

1 Remove and inspect the contents of the shipping carton. The terminal ships in multiple configurations. The carton may include all or any of the following:

- Device
- Connectivity cable



This device is a secure product and any tampering can cause it to cease to function or operate in an unsecured manner.



Power supply, connectivity cubes and base modules are shipped separately or depending on customer requirements.

- 2 Remove all plastic wrapping from the terminal and components.
- 3 Remove the clear protective film from the display.
- 4 Save the shipping carton and packing material for future repacking or moving of the device.



Do not use a tampered or damaged unit. The unit comes equipped with tamper-evident labels. If a label or component appears damaged, please notify the shipping company and your Verifone service provider immediately.

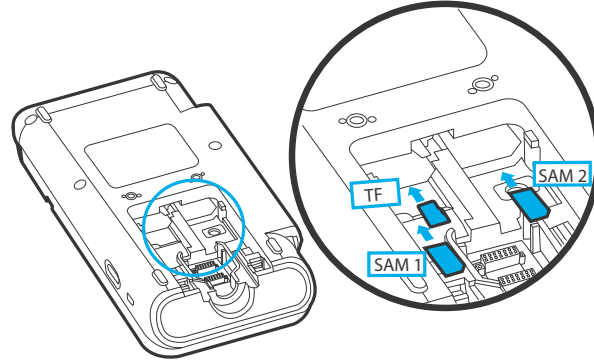
**SAM/TF Cards**

You may need to install one or more security access module (SAM) cards or replace the old cards.

To install or replace SD card:

- 1 Turn off the terminal.

- 2 Place the terminal face down on a soft and clean surface.
- 3 Remove cable cover as shown in Figure 2.
- 4 Insert the card into the slot.



**Figure 2 SAM/TF Slots**



Observe standard precautions in handling electrostatically sensitive devices. Electrostatic discharges can damage the equipment. Verifone recommends using a grounded anti-static wrist strap.

**Installing or Changing SAM/TF Card**

To install or change TF or SAM card:

- 1 Place the terminal face down on a soft and clean surface to protect the lens from scratches.
- 2 Release the screw.
- 3 Slide out and lift the compartment cover. The TF and SAM cardholders are now accessible.
- 4 Install the TF or SAM card by carefully sliding it into the slot until fully inserted.



Insert the card with the card's gold contacts facing away from you, towards the unit.

**Power Supply**

Not all configurations and device contexts require the use of a power supply – Verifone ships power supply with the terminal as required.

Contact your Verifone representative if you have changed the context in which the terminal is used or have questions about which power supply should be used.



Using an incorrectly rated power supply can damage the unit or cause it not to work properly. Use only a power pack with VPN PWR435-101- \* - A (see [Service and Support](#) for detailed power supply specifications).



Disconnect the power pack cord from the power outlet before connecting a power supply. Connect and route all cables between the terminal, ECR and PC before plugging the power pack cord into a wall outlet or surge protector.



Do not plug the power pack into an outdoor outlet or operate the terminal outdoors. Disconnecting power during a transaction can cause transaction data files not yet stored in memory to be lost.



Verifone recommends installing a power surge protector to protect against possible damage caused by lightning strikes and electrical surges.

When the terminal has power and an application is loaded, the application starts after the initial Verifone copyright screen and displays a unique copyright screen. If no application is loaded, **DOWNLOAD NEEDED** appears on the display after the initial Verifone copyright screen.

## Cable Connections

The P630 has several cabling scenarios, depending on what it connects to:

- 1 Connection to Another Verifone Terminal.
- 2 RS-232 Connection Using an External Power Brick.
- 3 Ethernet Connection with External Power Brick.



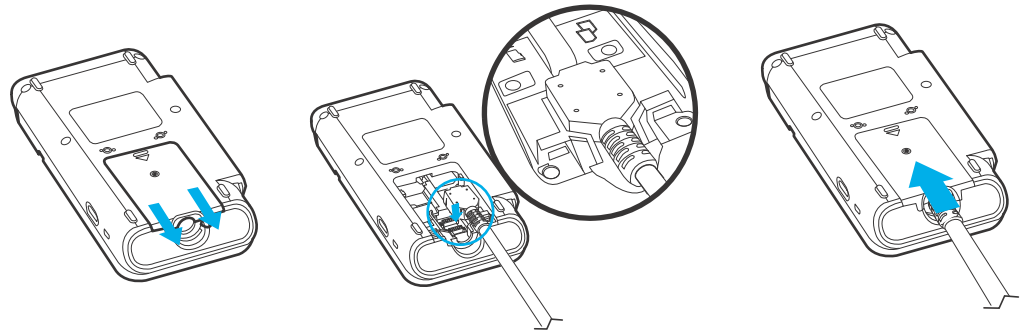
Turn off or unplug the terminal when connecting or disconnecting the device to avoid device memory corruption and data loss.

Refer to the controlling device instructions for any terminal-specific warnings.

### Attaching a Cable Connector to the P630

The cables first have to be attached to the P630. To attach a cable to the terminal, follow steps:

- Step 1: Release the screw.
- Step 2: Slide out the cable cover.
- Step 3: Attach the 28-PIN connector of the cable to the terminal.
- Step 4: Slide in the cable cover.
- Step 5: Fix the screw.



**Figure 3 Using the Connector**

**Connection to Another Verifone Terminal**

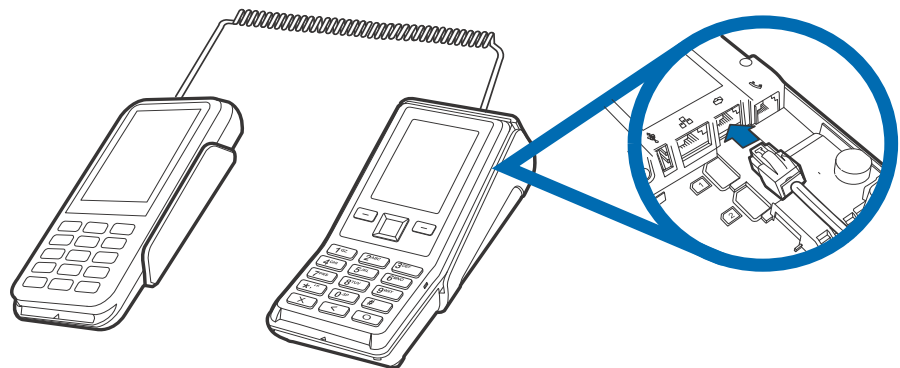
The P630 can be powered by another Verifone terminal by [Serial Connection](#).

**Serial Connection**

- **Configuration 1 - P630 to V200c**

The P630 device is powered by the Countertop terminal via USB where the output power of the V200c.

Connect the 28-pin connector of the coiled serial cable (Connected to MOD 10 port, cable VPN - CBL435-002-01-A) to P630, then insert the other end of the cable to the multi-communication port of V200c.



**Figure 4 Connecting to P630 via Serial Connection**

- **Configuration 2- P630 Full Feature**

The PINpad accessories on the opposite side is to connect the PC and the Electronic Cash Register (ECR) connection.

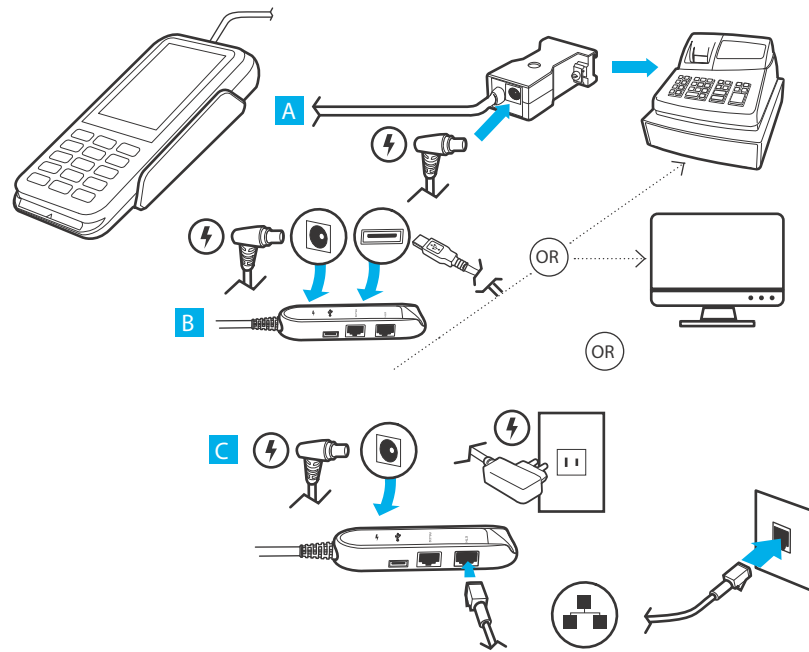
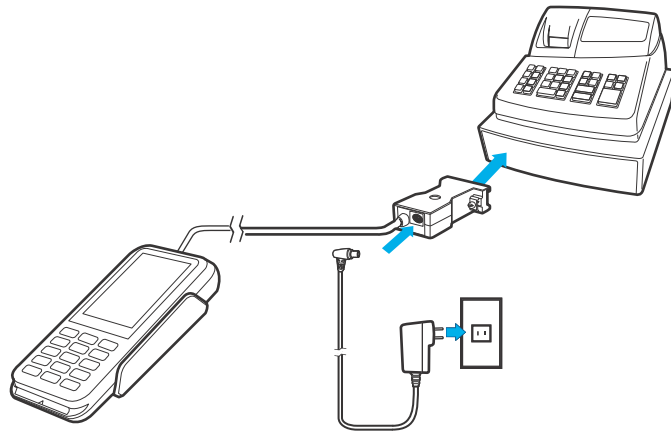


Figure 5 Connecting P630 to an External Device

**RS-232 Connection  
Using an External  
Power Brick**

A special dongle cable is used, where one end of the cable plugs into the P630 while the other end terminates into the DB-9 connector housing. On the housing, a DC jack is provided to connect to an external power brick. This is a generic cable for all RS232-based hosts (VPN - CBL282-031-XX-A).



**Figure 6 Connecting to RS232-Based Host**

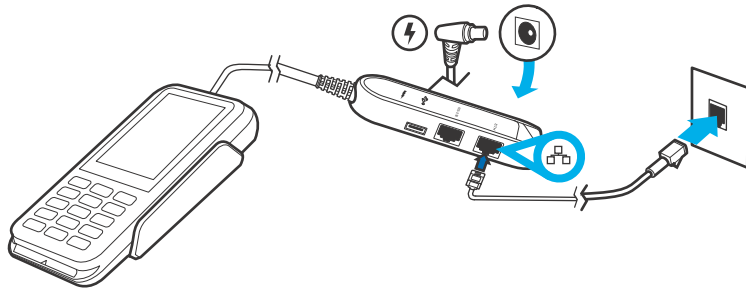
**Ethernet  
Connection with  
External Power  
Brick**

To connect the terminal to other devices via Ethernet, use the cable with a junction box that provides a standard RJ-45 LAN socket, a mini-USB port, and a standard DC jack for an external power connection.

The junction box comes in these configurations:

| Cable                                   | Configuration   | Part Number     |
|---|---|-----------------|
| Ethernet with RS232                     | Junction box with RJ-45 socket (for connecting the device to LAN infrastructure), MOD-8 socket for RS232 & DC-in jack                       | CBL282-006-01-B |
| Ethernet with RS232 and Mini-USB option | Junction box with RJ-45 socket (for connecting the device to LAN infrastructure), MOD-8 socket for RS232, Mini USB & DC-in jack             | CBL435-005-02-A |
| Ethernet with RS232 and USB option      | Junction box with RJ-45 socket (for connecting the device to LAN infrastructure), MOD-8 socket for RS232, Mini USB, type A USB & DC-in jack | CBL435-044-01-A |

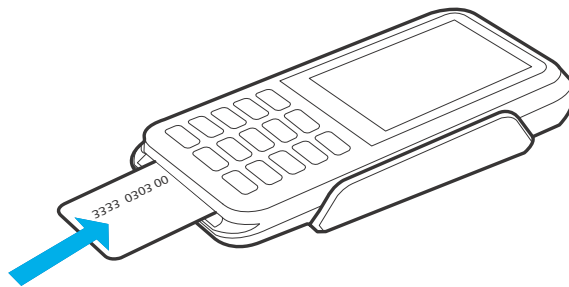
The figure below shows the connections available on the external power brick.



**Figure 7 Available Connections on the External Power Brick**

## Smart Card Reader

The smart card transaction procedure can vary depending on the application. Verify the proper procedure with your application provider before performing a smart card transaction.



**Figure 8 Using the Smart Card Reader**

**Conducting a Smart Card Transaction**

To conduct a smart card transaction:

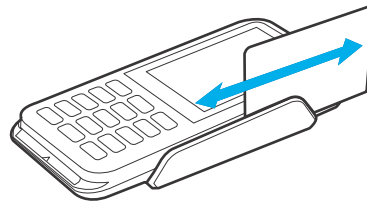
- 1 Position the smart card with the gold contacts facing upward.
- 2 Insert the card into the smart card reader slot in a smooth, continuous motion until it seats firmly.
- 3 Remove the card when the display indicates the transaction is completed.



Leave the smart card in the card reader until the transaction is completed. Premature removal can void the transaction.

**Magnetic Stripe Card Reader Use**

The P630 has a magnetic card reader that uses a triple-track stripe reader. This gives the unit greater reliability over a wide range of swipe speeds and operating environments.



**Figure 9 Using the Magnetic Stripe Card Reader**

**Conducting a Credit/Debit Card Transaction**

To conduct a credit or debit card transaction:

- 1 Position a magnetic card with the stripe facing the keypad.
- 2 Swipe it through the magnetic card reader.

**Contactless Transactions**

The P630 supports contactless transactions through an integrated contactless module. The terminal only becomes active for contactless smart card transactions when initialized by an application.



**Figure 10 Contactless Transaction**

**Performing Contactless Transactions**

To perform a contactless smart card transaction:

- 1 Gently tap the card onto or hold the card (within 4 cm) against the surface of the display where the contactless logo appears.

- 2 An activated LED visual on the display accompanied by a short beeping sound indicates a successful transaction.

See [Contactless Transactions](#) for more information.

## Optional Accessories

These accessories can be used to further enhance the device's functionality. See [Accessories and Documentation](#) for additional information.

### Privacy Shield

The privacy shield is used to hide the keys when entering user a password in a transaction. Two types of privacy shields can be used:

- Standard Type - This privacy shield is PCI-compliant. This must be used when P630 is not mounted on a swivel stand.



**Figure 11 Standard Type Privacy Shield**

**NOTE**



Failure to use the privacy shield in a PCI-compliant manner will void PCI compliance for the affected device.

### *Installing the Privacy Shield*

To install a privacy shield:

- 1 Align the hooks on the privacy shield with the corresponding slots beside the keypad on the terminal.
- 2 Once the hooks are in place, gently push down on the privacy shield until it snaps into place.

### Mounting Plate

This accessory is used to mount P630 to vertical or inclined surfaces.

### *Attaching a Mounting Plate to P630*

To attach a mounting plate to P630:

- 1 Align the screw holes at the back of the terminal with the corresponding screws on the mounting plate (this can be done with or without the stylus holder attached).
- 2 Screw the mounting plate in place, keeping the terminal aligned.

### *Mounting P630 with Mounting Plate to a Wall or Flat Surface*

To mount the terminal to a wall or flat surface:

- 1 Ensure the mounting plate is attached to the terminal.

- 2 Attach three M3 screws (not included in the P630 package) to the desired surface. Make sure that they are aligned with the slots on top and at the bottom of the mounting plate.
- 3 Secure the terminal with the mounting plate in place by aligning the holes to the M3 screws and then sliding the entire assembly into place.
- 4 Slide the terminal down to secure it to the mounting plate. To remove the terminal, slide the terminal up and pull it away from the mounting plate.

#### ***Mounting P630 to a Flat Surface (Without a Mounting Plate)***

To mount the terminal to a flat surface:

- 1 Align the terminal's footers to the holes on the mounting plate.
- 2 Fit the footers of the terminal into the footer holes.
- 3 Screw the mounting plate in place.

---

**NOTE**

Customized plates must have four recessed areas big enough to fit the footers of the terminal. This ensures that there is no gap between the terminal and mounting plate.

---

#### ***Mounting P630 with Mounting Plate to a Vertical Bracket***

To mount the terminal with a mounting plate to a vertical bracket:

- 1 Ensure the mounting plate is attached to the terminal.
- 2 Align the three screw holes of the mounting plate with the vertical bracket holes.
- 3 Screw the vertical bracket in place.

#### **Mounting Considerations**

Avoid having metallic objects in proximity to the contactless antenna. If you need to mount the terminal to vertical or inclined surfaces, use a flat mounting plate.

---

**CAUTION**

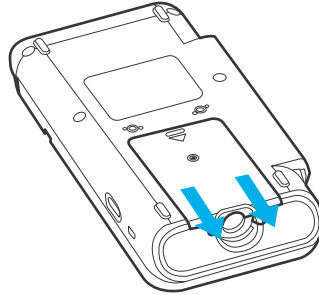
An enclosed metal frame or mount may negatively affect CTLS performance.

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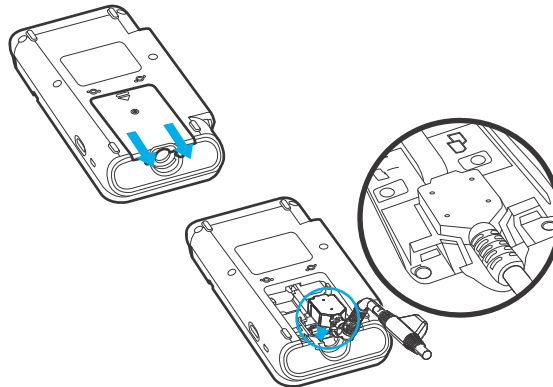


**External Camera** To mount the external semi-integrated camera for QR, Barcode, and OCR scanning:

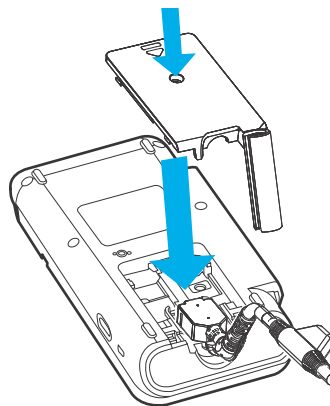
- 1 Release the screw and Slide out the cable cover.



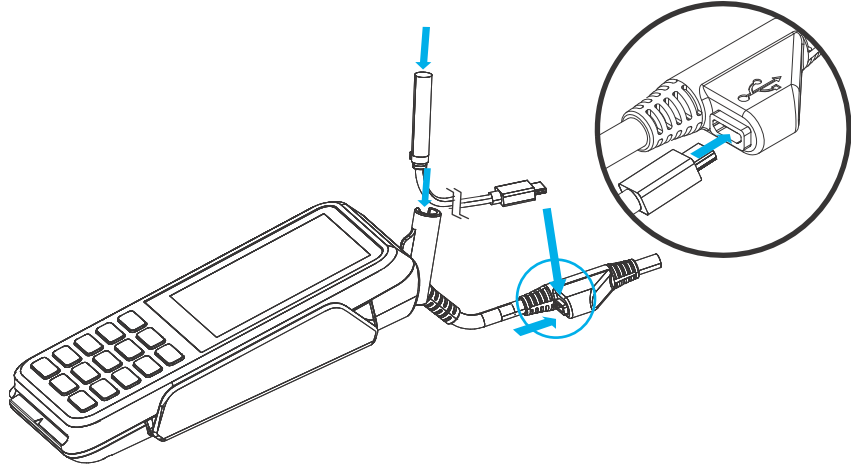
- 2 Attach the Data and Power cable to the terminal.



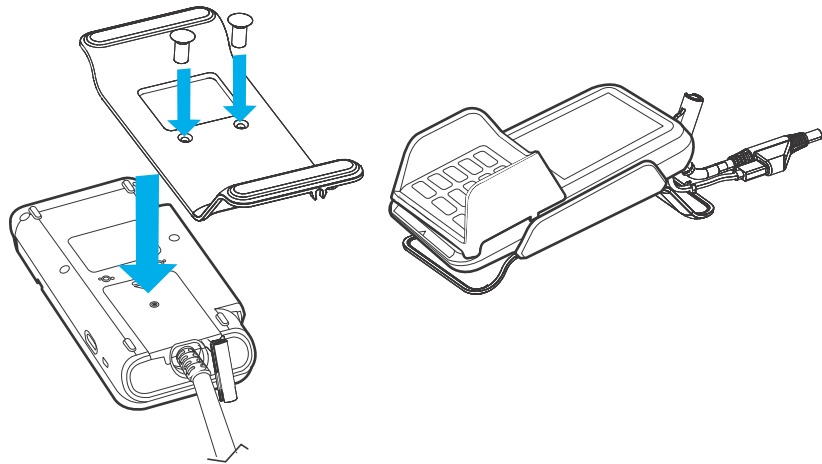
- 3 Place the cable cover which has the camera holder and fix the screw.



- 4 Place the camera in the camera holder.  
Place the other end of the camera cable to the micro USB and compact Y split body.



- 5 Place the terminal on the stand.



## Periodic Inspection

Periodically inspect the terminal for possible tampering. Signs of tampering may include:

- Wires that are protruding from the device.
- Foreign objects inserted into the smart card or mag stripe slot.
- Signs of damage to the tamper-evident label.

- Warning message on the device display.

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**NOTE**



If any device is found in a tampered state, please remove it immediately from service. Keep it available for potential forensic investigation and notify your company security officer and your local Verifone representative or service provider. For more information on contacting Verifone, refer to [Service and Support](#).

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## Specifications

This chapter discusses power requirements, dimensions and other specifications of the P630 device.

### Unit Power Requirements

P630 device has the following power requirements:

- Full capabilities: 110V - 240V AC, 1A

### Temperature

- Operating temperature: 0° to 45°C (32° to 113° F)
- Storage temperature: -20° to 60°C (-4° to 140° F)

### Humidity

- Relative humidity: 5% to 90% (RH non-condensing)

### External Dimensions

- Length: 170.26 mm (6.70 in)
- Width: 76.58 mm (3.01 in)
- Height: 31.85 mm (1.25 in)

### Weight

- Unit weight: 303 g (10.68 oz)

### Processor

- QUALCOMM ARM Cortex-A53 64-bit quad-core

### Display

- 3.5" portrait mode transmissive TFT  
320 (RGB) x 480 (HVGA)

### Magnetic Card Reader

- Triple track (tracks 1, 2, 3), high coercivity, bi-directional

### Primary Smart Card

- ISO 7816-3, 1.8V, 3V, 5V
- Synchronous and Asynchronous cards
- EMV Approved

## **SAM Card Reader**

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- Two Security Access Modules (SAMs)

## **Security**

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- 3DES and AES
- PCI PTS 6.x approved



## Maintenance and Cleaning

The P630 device has no user-maintainable parts. It can, however, be cleaned.

### General Care

Your device is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

- Keep the device dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device gets wet, switch off the power and allow the device to dry completely before replacing it.
- Do not use or store the device in dusty and dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store the device in cold areas. It can form moisture inside the device and damage electronic circuit boards when the device returns to its normal temperature.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Keep the device free from any small and loose items (such as paper clips, staples, or coins) that could accidentally get inside it through an opening, such as the SAM slots or the primary smart card reader slot.
- Do not attempt to open the device other than as instructed in this guide. This device has security features that protect it from tampering. For example, the file content will be deleted if the device's outer casing is opened.
- Use only the power adapter that came with your device. Adapters of other electronic devices may look similar, but they may affect your device's performance or damage it.
- Do not use this device in any area with a potentially explosive atmosphere. Follow all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

These suggestions apply equally to your device, or any of its attachments, or accessories. If your device is not working properly, then take it to the nearest authorized service facility for servicing or replacement. For your safety, have this device serviced only by a Verifone-authorized service provider.

## Additional Safety Information

The following are additional safety information for using this device.

### Surface Cleaning

To clean the device, use a clean cloth slightly dampened with water and a drop or two of mild soap. For stubborn stains, use alcohol or an alcohol-based cleaner.



Never use thinner, trichloroethylene, or ketone-based solvents – they can deteriorate plastic or rubber parts.

Do not spray cleaners or other solutions directly onto the device.

### Smart Card Reader Cleaning

The Smart Card Reader (SCR) must be cleaned regularly, as dirt accumulation can lead to SCR reading problems. SCR can be cleaned using commercially available card reader cleaning cards or using recommended Verifone cleaning card (PN 02746-02).

#### Cleaning the SCR

To clean the SCR:

- 1 Inspect the device's SCR for the presence of foreign objects before the cleaning Customer Smart Card.
  - a If the unit shows no presence of foreign objects, test the SCR function and record results. Proceed to [Step 2](#).



Send your device to a Verifone authorized repair center if foreign objects are found in the SCR at any time during SCR inspection, test diagnostics, or cleaning process. Removal of foreign objects from the SCR by customers may void the device warranty.

- 2 Clean the SCR with an approved or recommended Verifone cleaning card. It is always advised to use new cleaning cards at all times.



If using a commercially available cleaning card use ONLY an approved SCR cleaning card made specifically for POS SCR devices or Petroleum SCR.

- 3 Test the SCR after cleaning.
  - a If SCR tests out okay as “passing”, then the unit is ready for Customer Smart Card use.
  - b If SCR tests out as “failing”, then send the unit for repair. Provide details to repair center when SCR fails to test, either before cleaning OR after cleaning OR both before and after cleaning.



## Magnetic Stripe Cleaning

The Magnetic Stripe Reader (MSR) must be cleaned regularly (daily to once a week, depending on usage), as dirt accumulation can lead to MSR reading problems. MSR can be cleaned using commercially available card reader cleaning cards or using recommended Verifone cleaning card (PN 02746-02).



If using a commercially available cleaning card use **ONLY** an approved MSR cleaning card made specifically for POS MSR Card reader devices or Petroleum MSR card readers.

## Decommissioning/ Removal from Service

The decommissioning procedure applies to P630 series PCI PTS version 6.x POI-approved devices.



Failure to use this decommission procedure causes non-compliance to the PCI PTS POI Modular Security Requirements version 6.0 approval of the device.

To securely decommission the device:

- 1 Prepare your tool — a #8 Phillips head screwdriver is necessary.
- 2 Ensure that the device is disconnected from power and any other cables.
- 3 Turn the device face down, exposing the rear of the device.
- 4 Using the Phillips head screwdriver, remove each of the eight screws. Four of the screws are covered by the rear cable cover. You must remove the cable cover to access these screws.  
  
One screw is covered by a tamper-evident security label. Push the screwdriver through this label to access the screw.
- 5 Once all the identified screws have been removed, carefully separate the top housing plastics from the bottom 1mm, then pinch the top and bottom housing back together ensuring a proper fit.
- 6 Reinsert all of the screws previously removed. Tighten each screw completely.
- 7 Insert the power cable and power up the device.
- 8 Turn the device face up showing the display and keypad. Verify that the unit is in an “Active Tamper.” You should see the \*TAMPER\* message displayed on the screen.

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## Service and Support

Contact your local Verifone representative or service provider for any problems on your terminal.

For product service and repair information:

- USA – Verifone Service and Support Group, 1-800-Verifone (837-4366)
- Monday - Friday, 8 A.M. - 8 P.M., Eastern time
- International – Contact your Verifone representative

### Returning a Device for Service

You must obtain a Merchandise Return Authorization (MRA) number before returning the terminal to Verifone. The following procedure describes how to return one or more terminals for repair or replacement (U.S. customers only).

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**NOTE**

For international customers, please contact your local Verifone representative for assistance with your service, return, or replacement.

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- 1 Get the following information from the printed labels at the back of each P630 to be returned:
  - Product ID, including the model and part number. For example, “P630” and “M560 XXX-XXX-XXX.”
  - Serial number (S/N nnn-nnn-nnn)
- 2 Obtain the MRA number(s) by completing one of the following:
  - a Call Verifone toll-free within the United States at 1-800-Verifone and follow the automated menu options.
    - Select the MRA option from the automated message. The MRA department is open Monday to Friday, 8 A.M.–8 P.M., Eastern Time.
    - Give the MRA representative the information you gathered in Step 1.
    - Complete the Inquiry Contact Form at <https://www.verifone.com/en/us/contact-us>.
    - Address the Subject box to “Verifone MRA Dept.”

- Reference the model and part number in the Note box.



One MRA number must be issued for each P630 you return to Verifone, even if you are returning several of the same model.

- 3 Describe the problem(s).
- 4 Provide the shipping address where the repaired or replacement unit must be returned.
- 5 Keep a record of the following items:
  - Assigned MRA number(s).
  - Verifone serial number assigned to the P630 you are returning for service or repair (device serial numbers are located at the back of the unit).
  - Shipping documentation, such as air bill numbers used to trace the shipment.
  - Model(s) returned (model numbers are located on the Verifone label at the back of the P630).

## Accessories and Documentation

Verifone produces the following accessories and documentation for the P630. When ordering, please take note of the part number.

- USA – Verifone Customer Development Center, 800-Verifone (837-4366), Monday - Friday, 7 A.M. - 8 P.M., Eastern time
- International – Contact your Verifone representative

**Cables** Contact your local Verifone distributor to determine which cable fits your needs.

|                 |   |
|-----------------|---|
| CBL282-045-XX-B | USB cable (as Device). Powered from +9 V/1 A DC adaptor     |
| CBL282-033-XX-B | Powered USB cable (as Device). Powered from +12 V PUSB Host |
| CBL282-031-XX-A | RS-232 cable (DB9). Powered from +12 V DC adaptor           |
| CBL282-036-XX-A | RS-232 cable (RJ45). Powered from Countertop (+12 V)        |
| CBL282-006-01-B | Ethernet/RS232, Dongle 1.0 m                                |
| CBL435-002-01-A | USB cable (MOD10), Powered from V200c, COIL 2.65m           |
| CBL435-005-02-A | Ethernet and Mini-USB, Dongle Cable 1.0m                    |
| CBL435-044-01-C | USB/Ethernet/RS232, Dongle Cable 1.0 m                      |

## **Power Supply**

|                 |                           |
|-----------------|---------------------------|
| PWR435-101-01-A | DC power pack (US)        |
| PWR435-101-02-A | DC power pack (UK)        |
| PWR435-101-03-A | DC power pack (EU)        |
| PWR435-101-04-A | DC power pack (Australia) |

**Stylus Pen** PPL435-010-01-A

**Stylus Holder** PPL435-008-01-A

**Cleaning Kit** 02746-01 Verifone Cleaning Kit

**Documentation** DOC560-111-EN P630 Certifications and Regulations  
DOC560-222-EN P630 Quick Installation Guide

**External Camera**  
ACC000-100-01-A

**Camera Door**  
PPL560-523-01-A

**Camera Cable**  
MSC560-180-01-A

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## Troubleshooting Guidelines

This chapter lists typical malfunctions that may occur while operating a P630 device and the appropriate corrective action. If the problem persists – even after performing the outlined guidelines, or if the problem is not described, contact your local Verifone representative for assistance.

**NOTE**

The P630 device uses a tamper-evident case and contains no user-serviceable parts. Do not, under any circumstance, attempt to disassemble the unit. Perform only those adjustments or repairs specified in this guide. For all other services, contact your local Verifone service provider. Service conducted by parties other than authorized Verifone representatives may void any warranty.

### Display Panel Does Not Work

Use the following steps to check the display panel:

- 1 Check all the cable connections.
- 2 Check the controlling device's AC outlet to be sure the outlet is supplying sufficient power. Substitute the controlling device's power pack with another power pack.
- 3 The controlling device's application program might not be loaded correctly. Download the application program and try again.
- 4 If the problem persists, contact your local Verifone representative.

### Keypad Does Not Respond

Use the following steps to check the keypad:

- 1 Check the display panel. If there are no characters, or the wrong characters are displayed, refer to [Display Panel Does Not Work](#).
- 2 If the problem persists, contact your local Verifone representative.

### Transactions Fail to Process

There are several possible reasons why the unit may not be processing transactions. Use the following steps to troubleshoot failures.

#### **Check Magnetic Card Reader**

- Perform a test transaction using one or more different magnetic stripe cards to ensure the problem is not a defective card.
- Ensure that you are swiping cards properly (see [Magnetic Stripe Card Reader Use](#)).
- Process a transaction manually using the keypad instead of the card reader. If the manual transaction works, the problem may be a defective card reader.

- If the problem persists, contact your local Verifone representative.

#### **Check Smart Card Reader**

- Perform a test transaction using several different smart cards to ensure the problem is not a defective card.
- Ensure that the card is inserted correctly (see [Magnetic Stripe Card Reader Use](#)).
- Ensure the MSAM cards are properly inserted in the slots and are properly secured (see [SAM/TF Cards](#)).
- If the problem persists, contact your local Verifone representative.





**Caution and Warning Messages**

Products with UL/cUL certification should include French translations of Caution and Warning notices. The following table lists all notices found in the document, their location and the equivalent French translations.

**Table 4 Caution and Warning Messages**

| Notice  | Chapter | Page    | English Text  | French Text   |
|---------|---------|---------|---|---|
| Warning | Setup   | page 11 | For safety, do not string cables or cords across a walkway.   | <i>Par mesure de sécurité, ne pas les câbles de chaîne ou de cordons à travers une passerelle.</i>  |
| Caution | Setup   | page 11 | This unit is not waterproof or dustproof and is intended for indoor use only. Any damage to the unit from exposure to rain or dust can void any warranty. | <i>Cet appareil n'est pas étanche ou à la poussière, et est destiné à une utilisation en intérieur. Tout dommage à l'unité de l'exposition à la pluie ou à la poussière peut annuler la garantie.</i> |
| Caution | Setup   | page 14 | Using an enclosed metal frame or mount may negatively affect contactless performance.   | <i>L'utilisation d'un cadre métallique fermé ou de montage peut affecter négativement contact performance.</i>  |

**Table 4** Caution and Warning Messages (continued)

| Notice  | Chapter | Page    | English Text  | French Text   |
|---------|---------|---------|---|---|
| Warning | Setup   | page 12 | Due to the risk of electrical shock or terminal damage, do not use the terminal near water, including a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool. Also, avoid using this product during electrical storms. Avoid locations near electrical appliances or other devices that cause excessive voltage fluctuations or emit electrical noise (for example, air conditioners, neon signs, high frequency or magnetic security devices, or electric motors). | <i>Du fait d'un risque d'électrocution ou d'une détérioration du terminal, ne pas utiliser cet équipement près d'une source d'eau, par exemple près d'une baignoire, d'un lavabo, d'un évier de cuisine ou d'un bac de lavage, dans un sous-sol humide ou à proximité d'une piscine. De même, éviter d'utiliser ce produit lors des orages provoquant des coupures électriques. Éviter de placer le terminal à proximité d'appareils électriques ou autres unités pouvant entraîner des fluctuations de tension importantes ou des interférences électriques, tels que les climatiseurs, enseignes au néon, dispositifs de sécurité à haute fréquence ou équipements électriques.</i> |
| Caution | Setup   | page 15 | This device is a secure product and any tampering can cause it to cease to function or operate in an unsecured manner.  | <i>Cet appareil est un produit sûr et toute manipulation peut l'amener à cesser de fonctionner ou fonctionner de manière non sécurisée.</i>   |

**Table 4** Caution and Warning Messages (continued)

| Notice  | Chapter | Page    | English Text   | French Text   |
|---------|---------|---------|--|---|
| Warning | Setup   | page 14 | Do not use a unit that has been tampered with or otherwise damaged. This unit comes equipped with the tamper-evident label. If a label or component appears damaged, immediately notify the shipping company and your Verifone representative or service provider. | <i>Ne pas utiliser un appareil qui a été altéré ou endommagé. Cet appareil est équipé d'étiquette d'inviolabilité. Si une étiquette ou d'un composant semble être endommagé, en aviser immédiatement la compagnie maritime et votre représentant Verifone ou prestataire de services.</i> |
| Caution | Setup   | page 16 | Observe standard precautions in handling electrostatically sensitive devices. Electrostatic discharges can damage the equipment. Verifone recommends using a grounded anti-static wrist strap.   | <i>Respecter les précautions standard dans la manipulation d'appareils sensibles aux décharges électrostatiques. Les décharges électrostatiques peuvent endommager le matériel. Verifone recommande d'utiliser un bracelet anti-statique à la terre.</i>                                  |
| Caution | Setup   | page 16 | Using an incorrectly rated power supply can damage the unit or cause it not to work properly. Use only a power pack with VPN PWR435-101-01-A.  |   |
| Caution | Setup   | page 17 | Do not plug the power pack into an outdoor outlet or operate the terminal outdoors. Disconnecting power during a transaction can cause transaction data files not yet stored in memory to be lost.   |   |

**Table 4** Caution and Warning Messages (continued)

| Notice  | Chapter             | Page    | English Text   | French Text   |
|---------|---------------------|---------|--|---|
| Warning | Setup               | page 17 | Turn off or unplug the terminal when connecting or disconnecting the device to avoid device memory corruption and data loss. Refer to the controlling device instructions for any terminal-specific warnings.  | <i>Éteignez ou débranchez le terminal pour connecter ou déconnecter le dispositif pour éviter la corruption de la mémoire de l'appareil et la perte de données. Reportez-vous aux instructions de l'appareil de contrôle pour tous les avertissements spécifiques au terminal.</i>  |
| Caution | Setup               | page 22 | Leave the smart card in the card reader until the transaction is completed. Premature removal can void the transaction.  |   |
| Warning | Setup               | page 23 | An incorrect power sequence may degrade the SoC Host port.   |   |
| Caution | Service and Support | page 33 | Never use thinner, trichloroethylene, or ketone-based solvents – they can deteriorate plastic or rubber parts. Because this device can be damaged by liquid, do not spray cleaners or other solutions directly onto the keypad or display. Always apply the cleaner to a cloth before cleaning the device. | <i>N'utilisez jamais de diluant, le trichloréthylène ou des solvants cétoniques - ils peuvent détériorer les pièces en plastique ou en caoutchouc. Parce que cet appareil peut être endommagé par un liquide, ne pas vaporiser de nettoyage ou d'autres solutions directement sur le clavier ou l'écran. Toujours appliquer le nettoyant sur un chiffon avant de nettoyer l'appareil.</i> |



Verifone, Inc.  
1-800-Verifone  
[www.verifone.com](http://www.verifone.com)

# P630 - 2

## *Installation Guide*

