INFINITE PERIPHERALS

STIMARE

LINEA PRO 6

USER MANUAL

LINEA PRO® 6

iPhone®6 1D/2D SCANNER

Made for iPhone

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LEGAL NOTICE

“Made for iPhone” means that an electronic accessory has been designed to connect specifically to the iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone may affect wireless performance.

COMPATIBILITY

Made for:

iPhone® 6 mobile digital device

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Linea Pro® 6 is a registered trademark of Infinite Peripherals, Inc.

Table of Contents

CONTACT INFORMATION 1
LEGAL NOTICE 2
COMPATIBILITY 2
BOX CONTENTS 5
ACCESSORIES 6
GETTING STARTED 7
Warnings, Cautions and Notes 7
First Steps 7
LINEA PRO 6 FEATURES 8
LINEA PRO 6 PRODUCT OVERVIEW 9
Figure 1: Front View 9
Figure 2: Top View 9
Figure 3: Bottom View 10
Figure 4: Back View 10
ASSEMBLING YOUR LINEA PRO 6 11
Figure 5: Assembly 11
CHARGING YOUR LINEA PRO 6 12
Charging the Linea Pro 6 through the USB Port 12
Figure 6: USB Sync/Charge Port 12
Figure 7: Battery Status Indicators 13
DEVELOPING APPLICATIONS FOR YOUR LINEA PRO 6 14
POWERING ON YOUR LINEA PRO 6 15
Dual Purpose Scan Button 15
Figure 8: Dual Purpose Scan Button 15
LINEA PRO 6 STATUS AND OPERATIONAL MODES 16
USING YOUR LINEA PRO 6 17
Barcode Scanner - 1D Barcodes 17
Figure 9: 1D Barcode Scanning 17
Barcode Scanner - 2D Barcodes 18
Figure 10: 2D Barcode Scanning 18
Magnetic Stripe Reader (MSR) 19
Figure 11: Magnetic Stripe Reader 19
Contactless Card Reader (RFID) 20
Figure 12: RFID Reader 20
Syncing 21
Figure 13: Syncing through USB Port 21
RESETTING YOUR LINEA PRO 6 22

Figure 14: Reset Function *22*
SERVICING YOUR LINEA PRO 6 ..... **23**
Battery Replacement 23
Figure 15: Battery Replacement/Servicing *23*
SRED Encrypted MSR Information 24
TROUBLESHOOTING **25**
Troubleshooting > Card Reading 25
Troubleshooting > Barcode Scanning 25
Troubleshooting > Contactless Card Reading 26
TECHNICAL DATA **27**
WARRANTY **29**
DISCLAIMER **29**
SYMBOLS FOR USE **30**
FEDERAL COMMUNICATIONS COMMISSION **31**
Federal Communications Commission (FCC) Statement 31
FCC RF Radiation Exposure Statement 31

BOX CONTENTS

The Linea Pro 6 ships with the items listed below:

Qty	Part Number	Description	Image
1	*LP6-BTRE-PH6 *LP6-E-PH6 *LP6-EF-PH6 *LP6-I2D-PH6 *LP6-I2DBT-PH6 *LP6-I2DBTRE-PH6 *LP6-I2DE-PH6 *LP6-I2DE-PH6 *LP6-I2DEF-PH6 *LP6-ID2DR-PH6 *LP6-MS-PH6 *LP6-MSE-PH6 *LP6-N2DBTRE-PH6 *LP6-PH6 *LP6-R-PH6 *LP6-S-I2DBTF-PH6 *LP6-S-I2DBTR-PH6	Linea Pro 6	
1	PSL-T6H16-40	Screw M1.6x4 - Security Torx	
1	A5005-017	USB charge/sync cable*	

***Note:** Box contents may vary based on ordered configuration.*

ACCESSORIES

The following accessories may be purchased for use with the Linea Pro 6:

Part Number	Description
CS-R-LP61D-STR-G/BK	Rugged case for Linea Pro 6 1D model without MSR, Gray/BLK
CS-R-LP62D-STR-G/BK	Rugged case for Linea Pro 6 2D model without MSR, Gray/BLK
CS-R-LP62D-STR-IPC	Rugged Case for LP6 2D
CS-RMS-LP61D-STR-G/BK	Rugged case for Linea Pro 6 1D model with MSR, Gray/BLK
CS-RMS-LP62D-STR-G/BK	Rugged case for Linea Pro 6 2D model with MSR, Gray/BLK
CS-RMS-LP62D-STR-IPC	Rugged Case for LP62D w/Strap
HOL-LP6-C-W-MC-SHL	Closed top holster with metal belt clip and shoulder strap for Linea Pro 6 with rugged case, including hand strap and pad
PSLP1-LP6	Linea Pro 6 Single Station Charger
PSLP1-LP6-KIT	1 Unit “drop-in” Charger (iPhone) Single station charger with USB cable and Belkin AC adapter
PSLP5-LP6	5 Unit Charger Kit (iPhone) Five Station Charger
CS-LP6-PG	Pistol grip for Linea Pro 6. Fits iPhone 6 with Linea Pro 2D Scanner. Includes battery, and silicone sleeve.

GETTING STARTED

Warnings, Cautions and Notes

Please observe the ***Warnings***, ***Cautions*** and ***Notes*** presented throughout this manual. An explanation of these items is provided below:

Symbol		Description
	WARNING:	Actions may result in a serious outcome *(e.g., injury, death or other adverse affect)* to the user.
	CAUTION:	Special care is required to avoid damage to the product or other property.
	Note:	*Important points and tips about the product are being provided.*

First Steps

The Linea Pro 6 allows customers to scan barcodes and capture magnetic stripe information into the iPhone. Before using your Linea Pro 6, the battery should be properly charged.

The following table will help you get the Linea Pro 6 ready for use:

Step	Purpose	Additional Information
1. Integrate your Linea Pro 6 with the iOS Device.	Connecting your Linea Pro 6 to your iPhone	*See manual section:* **ASSEMBLING YOUR LINEA PRO 6**
2. Charge your Linea Pro 6	The battery should be fully charged before use to ensure long battery life.	*See manual section:* **CHARGING YOUR LINEA PRO 6**
3. Install software	Device features requires the installation of software on your iOS device.	*See manual section:* **DEVELOPING APPLICATIONS**
4. Power on your Linea Pro 6	Initialize the Barcode Scanner, Magnetic Stripe Reader (MSR) and/or Radio Frequency Identification (RFID) functions for use.	*See manual section:* **POWERING ON YOUR LINEA PRO 6**

LINEA PRO 6 FEATURES

The Linea Pro 6 allows mobile employees to convert their iPhone into a powerful solution for the retail, warehousing, supply chain, ticketing and hospitality industries. The Linea Pro 6 includes an encrypted or unencrypted 3-track magnetic stripe reader, optional 1D or 2D barcode scanner, optional Bluetooth®, and optional RFID.

Feature	Description
1D/2D Barcode Scanner	The Linea Pro 6 supports one-dimensional (1D) and two-dimensional (2D) barcode symbols, which can be read in any direction (omni-directional). The effective reading distance of the barcode reader varies depending on the barcode size. The barcode scanner is also capable of reading barcodes on an LCD screen.
Magnetic Stripe Reader (MSR)	The Linea Pro 6 has a built-in magnetic stripe reader. The card reader incorporates a (3) track, bi-directional magnetic read head, requiring a single swipe to read field data from all three tracks.
Contactless Card Reader (RFID)	The Linea Pro 6 has an RFID tag/card reader with read and write capability at 13.56 MHz. The RFID reader incorporates several RFID formats, depending on the model of your Linea Pro 6.
Bluetooth Compatibility	Available Bluetooth 2.0 SPP compatibility, which allows connection to a Bluetooth peripheral, such as a printer.
Syncing	The Linea Pro 6 enables your iOS device to be synced with iTunes.
Indicators	The Linea Pro 6 uses (4) LEDs to indicate battery status levels.
Battery Status	The battery status may be checked by pressing the Battery Status button.

Note:

Use of the Barcode Scanning, Magnetic Card and/or RFID reader features requires the installation of special software. Please contact your reseller to inquire about available software, or contact Infinite Peripherals directly for recommendations on compatible third party software solutions.

LINEA PRO 6 PRODUCT OVERVIEW

Figure 1: Front View

Figure 2: Top View

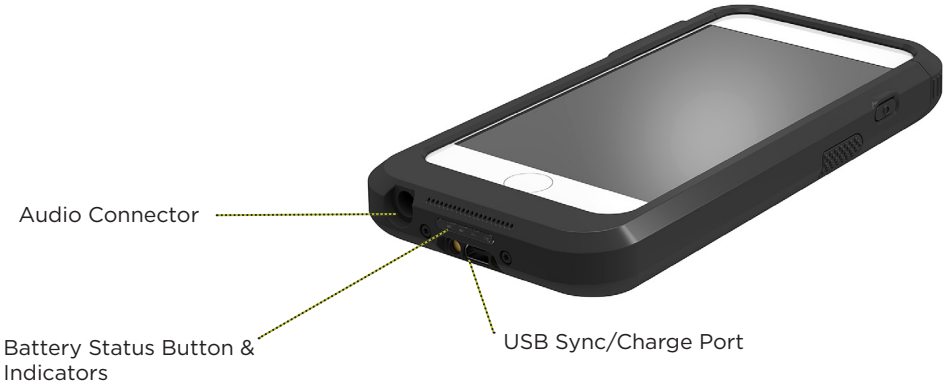

Figure 3: Bottom View

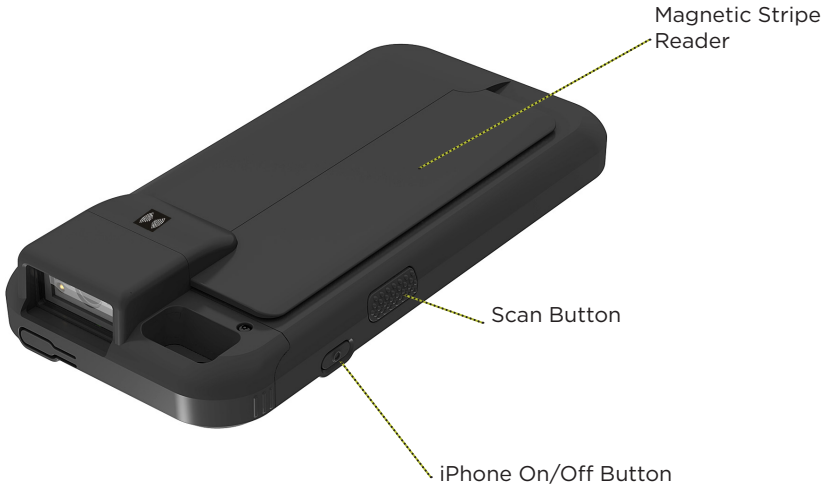

Figure 4: Back View

ASSEMBLING YOUR LINEA PRO 6

1. Remove the top of the Linea Pro 6 case.
2. Insert the iPhone 6 device.
3. Connect the iOS device by firmly sliding it onto the Lightning connector.
4. Guide the top piece onto the Linea Pro 6 using the large snap and firmly press the top piece onto the body of the Linea Pro 6.
5. Secure the top piece into place using the Torx screw provided with your unit.

Figure 5: Assembly

CHARGING YOUR LINEA PRO 6

Charging the Linea Pro 6 through the USB Port

The Linea Pro 6 uses a Lithium ion rechargeable battery. The battery should be fully charged prior to the first use.

The Linea Pro 6 supports pass through charging to the iOS device. The iPhone and Linea Pro 6 may be charged together via the mini USB port or by placing it in a Linea Pro 6 Single or 5-Unit Charging Station. Due to current charging limitations, the Linea Pro 6 should not be charged via USB from a PC/ Mac connection.

To Charge the Linea Pro 6:

1. Connect mini USB charger cable to the USB port *(shown in the figure below)*.

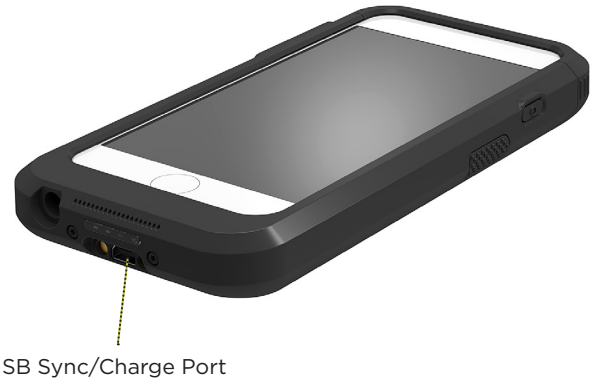

Figure 6: USB Sync/Charge Port

CAUTION:

⚠ To prevent electrical damage to the Linea Pro 6 and/or battery, please use approved USB to Mini USB cables only.

Note:

ⓘ *The battery should be charged in an ambient operating temperature of 0°C to +40°C.*

ⓘ *Charging time for a fully drained battery is approximately 5h and 30 min to achieve full charge status.*

ⓘ *If the device is equipped with encrypted magnetic stripe reader, do not allow the battery to fully discharge. The device will disconnect from the iPhone when the battery is drained below 3.6V.*

Battery Status Indicators

The battery status may be checked by pressing the Battery Status button.

The table below identifies the battery charge status by number of LED indicators illuminated on the device.

Figure 7: Battery Status Indicators

Battery Charge Status	
1 LED	1% - 25% charge
2 LED	26% - 50% charge
3 LED	51% - 75% charge
4 LED	76% - 100% charge

Note:

The iPhone 6 is not required to be connected to the Linea Pro device to check the battery status.

DEVELOPING APPLICATIONS FOR YOUR LINEA PRO 6

Software is not provided with your Linea Pro 6. Please contact your reseller or Infinite Peripherals for Third Party software solutions.

Integrating the Linea Pro 6 into your iOS application requires the use of the Infinite Peripherals Universal SDK. The SDK incorporates an API specifically for developing applications to use Linea Pro 6 functionality.

For additional details on using the Infinite Peripheral Universal SDK, please refer to the appropriate SDK documentation.

For the latest Infinite Peripheral Universal SDK please visit our developer portal at:

http://www.ipcprint.com/developer

PROGRAMMABLE OPTIONS

Below are optional settings for the Linea Pro 6 which can be configured via the SDK.

Programmable Options	Description
Charging Current	Charging current may be set to 500mA (default) or 1A
Set Charging	The Linea Pro 6 can charge the iPhone 6 using its internal battery by enabling the "setCharging" setting. When the Linea Pro 6 battery is above 20%, it will then start to charge the iPhone 6 battery
Enable Scan Button	In order to scan, the **Enable Scan Button** option must be set in the SDK.
Scan Mode	Linea Pro 6 supports the following Scan modes: • **Single Scan** Scanning a single barcode by pressing and releasing the Scan button. • **Multi Scan** Scanning multiple barcodes by pressing and holding the Scan button. • **Motion-Detect** Scanner is activated automatically when barcode is placed near the barcode engine. • **Multi-Scan without Duplicates** Scanning multiple barcodes without duplicates.
Pass Through Sync	When the pass through sync setting is enabled and the USB cable is plugged in, the iPhone 6 may be synced with a PC or MAC. When syncing is required, enable the **Pass through Sync** setting in the SDK. When this option is selected and the USB cable is plugged in, the Linea Pro 6 will disconnect and the user will no longer be able to scan. In order to use the scanner again, the USB cable must be removed.
Idle Time	Default setting is 5400 seconds (90 minutes).

POWERING ON YOUR LINEA PRO 6

Dual Purpose Scan Button

The Linea Pro 6 uses one dual-purpose button to power on the unit and to scan barcodes.

To Power on the Linea Pro 6:

1. With the Linea Pro 6 in powered off, press the Scan button until a single beep is sounded. This indicates that the Linea Pro 6 is now ready for use.
2. Press the Scan button a second time to activate the scanner for normal barcode scanning.

Figure 8: Dual Purpose Scan Button

Note:

When the Linea Pro 6 is left idling for an extended period, the power is automatically turned off to preserve the charge on the internal battery pack.

LINEA PRO 6 STATUS AND OPERATIONAL MODES

The Linea Pro 6 additionally uses the battery indicator LEDs to indicate various modes of operation. LED lighting indicators provide information regarding connection status, charging and/or low battery conditions.

The following table explains these conditions and their corresponding LED indication.

Operating Status	
No LEDs are lit	Linea Pro 6 is in sleep or ready mode
Multiple LEDs are lit	Linea Pro 6 is displaying battery level status.
One LED is flashing	Linea Pro 6 is charging and syncing.

USING YOUR LINEA PRO 6

Barcode Scanner - 1D Barcodes

The Linea Pro 6 1D model uses a scan engine that supports one-dimensional (1D) barcode symbols. The effective reading distance of the barcode reader varies depending on the barcode size.

To Scan a 1D Barcode:

1. Activate the Linea Pro 6 by pressing the Scan button.
2. Position the scan head as close to the barcode label as possible so that the scan line crosses both ends of the barcode as shown in the figure below.
3. Slowly pull the unit back, increasing the distance between the barcode and scan head, until the barcode has been read by the scanner.

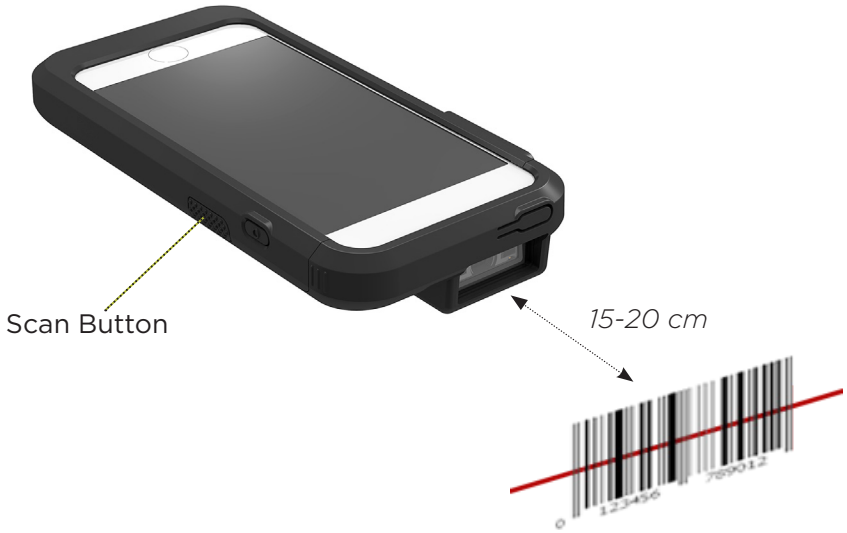

Figure 9: 1D Barcode Scanning

Barcode Scanner - 2D Barcodes

The Linea Pro 6 2D model uses a scan engine that supports one-dimensional (1D) and two-dimensional (2D) barcode symbols. The effective reading distance of the barcode reader varies depending on the barcode size.

To Scan a 2D Barcode:

1. Activate the Linea Pro 6 by pressing the Scan button.
2. Position the scan head so that the pointer is aimed at the barcode, and the barcode is within the width of the red illumination box.
3. Slowly pull the unit back, gradually increasing the distance between the barcode and scanner, until the barcode has been read by the scanner.

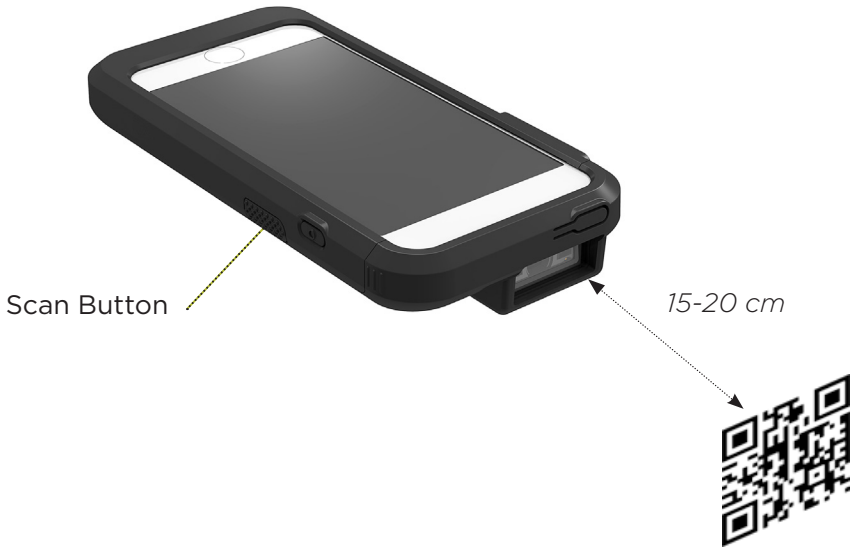

Figure 10: 2D Barcode Scanning

Magnetic Stripe Reader (MSR)

The Linea Pro 6 has a built-in magnetic stripe reader. The MSR incorporates a 3-track, bi-directional, encryption-capable magnetic read head. A single swipe can read field data from all three tracks.

The MSR will function as an unencrypted MSR until an encryption key is injected into the MSR head by a designated Infinite Peripherals key injection facility. Please contact an Infinite Peripherals account representative for more information.

To Use the Magnetic Stripe Reader

1. Activate the Linea Pro 6 by pressing the Scan button.
2. Insert the card into either end of the reader with the magnetic stripe face up, then swipe the card through toward the other end of the reader.

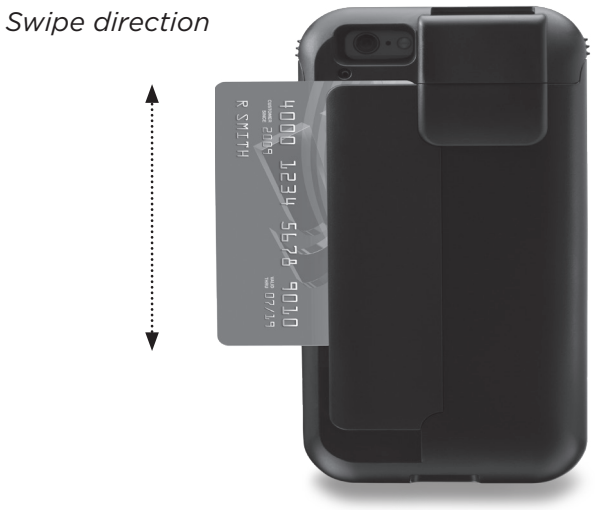

Figure 11: Magnetic Stripe Reader

Note:

Keep the edge of the card flat on the inner edge of the reader to ensure that the magnetic stripe passes over the read head evenly.

Contactless Card Reader (RFID)

The Linea Pro 6 has a built-in RFID tag/card reader. The RFID reader incorporates several RFID format depending on the model of your Linea Pro 6.

To Use the RFID Reader:

1. Activate the Linea Pro 6 by pressing the Scan button.
2. Place the RFID tag/card over the receiver/transmitter as indicated by the RFID label. The data will be sent from the Linea Pro 6 Tab contactless reader to the iOS Device.

Figure 12: RFID Reader

Note:

Keep the face of the tag/card flat, with the receiver/transmitter as close as possible. Depending on the type of RFID tags/cards being used, it may be necessary for tags/cards to make direct contact with the surface where the RFID receiver/transmitter is located for proper reading and writing.

Syncing

The Linea Pro 6 portable barcode scanner and card reader is designed specifically for use with iPhone 6, which allows the iPhone to sync with iTunes through the Linea Pro 6 while they are connected.

To sync your iPhone with iTunes through the Linea Pro 6, connect the Linea Pro 6 to a computer by plugging a Mini USB cable into the USB port. The Linea Pro 6 should now be in Sync mode.

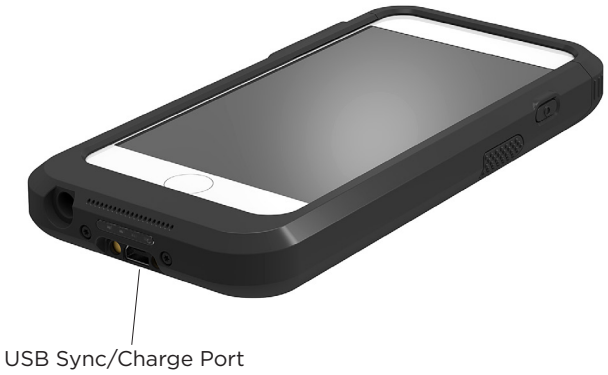

Figure 13: Syncing through USB Port

To disable Sync mode, exit iTunes and unplug the Mini USB cable from the Linea Pro 6.

Note:

Please refer to the iTunes documentation for additional instruction on syncing your iPhone.

If the "Pass-through Sync" setting is enabled and the USB cable is plugged in, the iPhone 6 will charge and sync with a PC or MAC. If the setting is disabled, the iPhone will charge only.

RESETTING YOUR LINEA PRO 6

The Linea Pro 6 uses the Battery Status button and the Scan button to perform a soft-reset without requiring the removal of the iOS device. The soft-reset feature cycles the power, allowing the Linea Pro 6 to restart.

To Reset the Linea Pro 6:

1. Press the Scan and Battery Status buttons simultaneously until a series of beeps is sounded.
2. Release both buttons and allow the Linea Pro 6 to restart.

Figure 14: Reset Function

Note:

If the Linea Pro 6 does not restart promptly, repeat steps as needed.

SERVICING YOUR LINEA PRO 6

Battery Replacement

The Linea Pro 6 is designed with an internal 2040mAh battery. If the battery is not charging properly, or the unit is not powering on, please contact your Infinite Peripherals representative or any certified IPC service center for servicing.

Figure 15: Battery Replacement/Servicing

CAUTION:

⚠ Linea Pro 6 with encrypted functionality has special key protection features. Any attempt to open the unit may result in the erasure of the encryption key and disabling of the card reading features. See ***SRED Encrypted MSR Information*** below for additional information.

SRED Encrypted MSR Information

Integrating the PCI PTS 3.x SRED-certified Linea Pro 6 into your solution requires proper maintenance of the Linea Pro 6 to ensure long and trouble free operation of the product. This includes maintaining proper battery charge to prevent the Linea Pro 6 from entering Tamper Detect mode. When the Linea Pro 6 battery is depleted or removed, the magnetic read head security feature becomes disabled and renders the unit unusable. If the Linea Pro 6 security feature becomes disabled, the unit must be sent back to Infinite Peripherals for servicing.

To prevent downtime caused by the magnetic read head security feature becoming disabled:

- Always place the Linea Pro 6 on charging station when not in use for extended periods.
- **DO NOT** allow the Linea Pro 6 battery to fully discharge.
- **DO NOT** attempt to remove the battery from the Linea Pro 6 unit.

CAUTION:

⚠ When the Linea Pro 6 battery is fully discharged and enters the Tamper Detect mode, the unit may only be reactivated at IPC or an authorized service facility.

TROUBLESHOOTING

Troubleshooting > Card Reading

If the Linea Pro 6 is not reading the magnetic strip properly, refer to the table below for possible causes:

Problem	Possible Cause
No card data returned during swiping	• Card is inserted incorrectly • Swipe method is incorrect • Faulty read head • Unreadable magnetic strip.
Partial card data returned during swiping	• Swipe method incorrect • Faulty read head • Unreadable magnetic strip

Troubleshooting > Barcode Scanning

If the Linea Pro 6 is not scanning barcodes properly, refer to the table below for possible causes:

Problem	Possible Cause
Scanner does not power on	• Linea Pro 6 battery is too low • Linea Pro 6 is not powered on by the software • Faulty scan engine
No barcode data being returned during scanning	• Unreadable barcode • Linea Pro 6 battery is too low • Faulty scan engine • Software decoding incorrectly
Partial barcode data returned during scanning	• Unreadable barcode • Linea Pro 6 battery is too low • Faulty scan engine • Software decoding incorrectly
Unable to perform multi-scanning	• Multi-scan mode not enabled • Software does not support multi-scan
Unable to hear scanner beep	• Sound mode not enabled • Linea Pro 6 battery is too low
Unable to scan certain barcode symbols	• Barcode type is not enabled • Barcode type is not supported See ***Technical Data*** section for additional information.

Troubleshooting > Contactless Card Reading

If the Linea Pro 6 is not reading RFID Tags/Cards properly refer to the table below for possible causes:

Problem	Possible Cause
RFID does not power on	• Linea Pro 6 battery is too low • Linea Pro 6 is not powered on by the software • Faulty RFID reader
No RFID data being returned during reading	• Unreadable RFID tag/card • Linea Pro 6 battery is too low • Faulty RFID reader • Software decoding incorrectly
Partial RFID data returned during reading	• Unreadable RFID tag/card • Linea Pro 6 battery is too low • Faulty RFID reader • Software decoding incorrectly
Unable to read some RFID Tags/ Cards	• RFID type is not compatible • RFID type is not supported See ***Technical Data*** section for additional information.

If you continue having problems with your Linea Pro 6 which are not resolved by referencing the table above, contact technical support at **support@ipcprint.com.**

TECHNICAL DATA

MECHANICAL	
Processor	32-bit ARM™ Cortex™ - M3 based Micro-controller
Compatibility	iPhone 6
Connectivity	Apple 9-pin connector
Weight	148 grams *(.33lbs)* without iOS device
Dimensions	***1D Scanner:*** 157mm (l) x 77 mm (w) x 22 mm (h) *(6.2 in x 3 in x .9 in.)*
	2D Scanner: 157mm (l) x 77mm (w) x 27 mm (h) *(6.2 in. x 3 in. x 1.1 in.)*
Buttons	Scan Button / Battery Status Button
Port	Mini USB for device charge and sync
ELECTRICAL	
Barcode Scanner	1D Laser or 2D High Speed Imager *(supports all major 1D or 2D barcodes)*
Battery Capacity	Rechargeable Li-ion Battery 3.7V /2040 mAh *Fuel Gauge option
Battery Life	Over 10,000 scans and swipes per full charge.
Power Supply	5V through mini USB 5V through single or 5 station charger
Card Reader	**Magnetic Card Reader:** - 3-track bidirectional reading capabilities - Type: ISO 7810, 7811, 7813
Contactless Card Reader (RFID) *(Optional)*	**ISO/IEC 14443 Type-A/MIFARE:** • MIFARE MINI • MIFARE CLASSIC-1K, MIFARE CLASSIC-4K • MIFARE ULTRALIGHT, ULTRALIGHT-C • MIFARE PLUS 2K/4K • MIFARE DESFire card • and others **ISO/IEC 14443 Type - B:** - Supports most cards **ISO 15693**: - Supports most cards
Encryption and Key Management	3DES-112, AES 128/256, DUKPT
Bluetooth Communication *(Optional)*	Bluetooth 2.0, Class 2 (option), Serial Port Profile (SPP)
Indicators	**Visual:** 4 LEDS for battery status
	Audio: Electromagnetic Buzzer

CERTIFICATIONS	
General	Apple MFi
Payment	PCI PTS 3.x
Drop Test	1.5m *(4.9 ft)*
ENVIRONMENT	
Operating Environment	**Temperature:** 0°C to +40°C *(32°F to +104°F)*
	Humidity: 5% to 90% RH
Storage Environment	**Temperature:** -10°C to +50°C *(14°F to +122°F)*
	Humidity: 5% to 90% RH

WARRANTY

Infinite Peripherals (IPC) does not warrant, and is not responsible for, any damage to the Linea Pro 6 or the assembled iOS product as a result of liquid or solid particle intrusion into the Linea Pro 6, or damaged caused by dropping the Linea Pro 6 with the assembled iOS product. If a material or workmanship defect arises with regard to any IPC product, and a valid claim is received within the Warranty Period, IPC (at IPC's sole discretion) will:

(1) repair the Linea Pro 6 using new or refurbished parts, or

(2) replace the Linea Pro 6 with a new or refurbished Linea Pro 6.

For purposes of this limited warranty, "refurbished means a product or part that has been substantially returned to its original specifications. In the event of a defect, these are your exclusive remedies.

DISCLAIMER

NO WARRANTY. This technical documentation is provided AS-IS. Further, the documentation does not represent a commitment on the part of Infinite Peripherals, Inc. and does not warrant that it is accurate, complete or error free. Any use of the technical documentation is at the risk of the user. Infinite Peripherals, Inc. reserves the right to make changes in specifications and other information contained in this document without prior notice, and the reader should in all cases consult Infinite Peripherals, Inc. to determine whether any such changes have been made. Infinite Peripherals, Inc. shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from the furnishing, performance, or use of this material. Infinite Peripherals, Inc. does not assume any product liability arising out of or in connection with the application or use of any product or application described herein.

SYMBOLS FOR USE

Symbol	Definition
	Consult Instructions for Use
	Manufacturer
	Manufacture Date
	Caution
	Serial Number
	Part Number
	Waste Electrical and Electric Equipment

FEDERAL COMMUNICATIONS COMMISSION

Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Operation is subject to the following two conditions:

1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter