



Infinite
Peripherals®

STIMARE 

Linea[®] Pro 7i

for iPhone 7 and iPhone 8



Linea[®] Pro 7i

USER MANUAL

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**INFINITE
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STIMARE 

Note: iOS device and other items shown sold separately.

LEGAL NOTICE

“Made for iPhone” mean 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 an iPhone may affect wireless performance.

COMPATIBILITY

Made for these mobile digital devices:

- iPhone® 7
- iPhone® 8

TRADEMARK CREDITS

Infinite Peripherals, Mobilize Your Enterprise, Linea Pro, Infinea, Infinea Tab and Infinea Omni are trademarks of Infinite Peripherals, Inc. All other trademarks are the property of their respective owners.

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BOX CONTENTS

Before Using Your Linea Pro 7i

- Remove the device and any included accessories from the shipping carton and verify contents against your packing list.
- Retain all packing materials, invoice, and bill of lading. These may be required to return the device for servicing later, or to process a claim with the shipping carrier.
- Carefully inspect the contents inside of the packaging for any signs of damage. If there are signs of damage, do **not** attempt to use the unit. Notify your account executive or contact Infinite Peripherals technical support at support@ipcmobile.com.
- Before initial use, ensure the battery is fully charged. If fully *discharged*, the charging time is approximately 3 hours and 30 minutes.

In the box, you'll find one Linea Pro 7i and the items listed below:



Linea Pro 7i (1)



Standard Battery (1)



USB Type-C™ Charge/Sync Cable (1)



Security Torx Screws (4)

Note: Box contents may vary based on ordered configuration.

ACCESSORIES

Contact your Infinite Peripherals account representative for information related to current and future product availability.

GETTING STARTED

Warnings, Cautions, and Notes

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

Symbol		Description
	WARNING	Actions may result in a serious outcome (for example, 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 7i allows you to scan barcodes and pass that data into compatible iOS applications. In addition, this form-fitted solution offers the IP66 rating for protection against dust and moisture.

The following helps you get the Linea Pro 7i ready for use:

Step	Purpose	Additional Information
Assemble your Linea Pro 7i with iOS device	Connecting your Linea Pro 7i to your iPhone.	See manual section: ASSEMBLING YOUR LINEA PRO 7i
Charge your Linea Pro 7i	The battery should be fully charged before use to ensure long battery life.	See manual section: CHARGING YOUR LINEA PRO 7i
Install software	Device features requires the installation of software on your iOS device.	See manual section: DEVELOPING APPLICATIONS FOR YOUR LINEA PRO 7i
Power on your Linea Pro 7i	Initialize the Barcode Scanner, and/or Radio Frequency Identification (RFID) functions for use.	See manual section: POWERING ON YOUR LINEA PRO 7i

LINEA PRO 7i FEATURES

The Linea Pro 7i allows mobile employees to convert their iPhones into a powerful solution for the retail, warehousing, supply chain, ticketing and hospitality industries. The Linea Pro 7i includes an optional 1D or 2D barcode scanner, Bluetooth® and RFID.

Feature	Description
1D/2D Barcode Scanner	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.
Contactless Card Reader (RFID)	Built-in RFID tag/card reader with read/write capability at 13.56 MHz. The RFID reader incorporates several RFID formats, depending on the model of your Linea Pro 7i.
Bluetooth Compatibility	Available Bluetooth 2.0 SPP compatibility, which allows connection to a Bluetooth peripheral, such as a printer.
Syncing	Enables your iOS device to be synced with iTunes.
Battery Status	Battery status can be viewed in the mobile application.



Use of the Barcode Scanning/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 7i PRODUCT OVERVIEW

1	Scan engine	6	Volume buttons for iOS device
2	Back cover	7	iPhone ring/silent switch
3	On/off button for iPhone	8	Batter cover latch
4	Left and Right scan buttons	9	Battery cover
5	USB type-C connector	10	External features connector





ASSEMBLING YOUR LINEA PRO 7i

To Assemble Your Linea Pro 7i:

1. Remove the top cover by unscrewing 4 screws, and then slide the unit forward and lift it up.



2. Attach the iOS device to the Lightning™ connector by firmly sliding it into place.



3. Align the front cover with the two hooks, and slide it down and then back until it clicks into place.
4. Screw all 4 screws onto the back cover.



GETTING STARTED

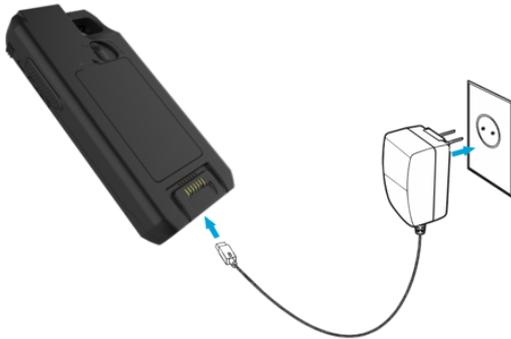
Charging the Linea Pro 7i through the USB Port

The Linea Pro 7i uses a Lithium-ion rechargeable battery. The charging time is approximately 3 hours and 30 minutes, if fully discharged.

In addition, the Linea Pro 7i supports pass through charging to the iOS device. The iPhone and Linea Pro 7i may be charged together using the USB Type-C port or by placing it in a Linea Pro 7i charging pads or USB port.

To Charge the Unit:

- Connect the USB Type-C charger cable to the USB port.



To prevent electrical damage to the Linea Pro 7i and/or battery, please use approved USB Type-C charger cables only.

Battery Status

To check Battery Status, open the mobile application on your iOS device to view device information.



The iOS device must be connected to the Linea Pro 7i unit to check the battery status.

When the status is above 20%, you can set the Automated Charge functionality to automatically charge the iPhone battery.

DEVELOPING APPLICATIONS FOR YOUR LINEA PRO 7i

Software is not provided with your Linea Pro 7i. Please contact your reseller or Infinite Peripherals for Third Party software solutions. Integrating the Linea Pro 7i 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 7i 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:

<https://developer.ipcmobile.com/>

PROGRAMMABLE OPTIONS

Below are optional settings for the Linea Pro 7i, which can be configured via the SDK.

Programmable Options	Description
Charging Current	Charging current may be set to 500mA (default) or 1000mA.
Set Charging	The Linea Pro 7i can charge the iPhone using its internal battery by enabling the “setCharging” setting. When the Linea Pro 7i battery is above 20%, it will then start to charge the iOS device battery.
Enable Scan Button	To scan, select the Enable Scan button in the SDK.
Scan Mode	<p>Linea Pro 7i supports the following scan modes:</p> <ul style="list-style-type: none">• Single Scan Scanning a single barcode by pressing and releasing either Scan button.• Multi Scan Scanning multiple barcodes by pressing and holding either 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	<p>When the pass through sync setting is enabled and the USB Type-C cable is plugged in, the iOS device may be synced with a PC or Mac.</p> <p>When syncing is required, enable the Pass through Sync setting in the SDK. When this setting is disabled and the USB cable is plugged in, the Linea Pro 7i only charges, but does not scan.</p> <p>In order to use the scanner again, the USB Type-C cable must be removed.</p>
Idle Time	Default setting is 5400 seconds (90 minutes).

Dual Purpose Scan Buttons

Two scan buttons are located on each side of the unit. Both Scan buttons are set as a dual-purpose button, which can both power on the unit and scan barcodes.

To Power on the Linea Pro 7i:

1. With the unit powered off, press one of the Scan buttons on the side.
2. Press either Scan button a second time to activate the scanner for normal barcode scanning.



When the Linea Pro 7i is left idling for an extended period, the power is automatically turned off to preserve the charge on the internal battery pack. If turned off, the unit is in sleep mode immediately.

Barcode Scanner—1D or 2D Barcodes

The scan engine in the Linea Pro 7i 1D model supports one-dimensional (1D) barcode symbols. The 2D model scan engine supports one-dimensional (1D) and two-dimensional (2D) barcode symbols. The effective reading distance of the barcode reader varies based on the barcode size. For example, 15-20 cm (5.9-7.9 inches).

These types of scanning modes are supported:

- Single scan
- Multi-scan
- Motion detect
- Multi-scan without duplicates

To Scan a 1D or 2D barcode:

1. Press and hold the Scan button on either side of the unit to activate the Linea Pro 7i.
2. Position the scan head as close to the barcode label as possible so the scan line crosses both ends of the barcode.
3. Slowly pull the unit back, increasing the distance between the barcode and scan head, until the barcode is read by the scanner. Data is displayed on the iOS.



Contactless Card Reader (RFID)

The optional RFID tag/card reader incorporates several RFID formats depending on the model of your Linea Pro 7i.



To use the RFID reader:

1. Press the Scan button to activate the unit.
2. Place the RFID tag/card over the receiver/transmitter as indicated by the RFID label.

Note: Data is sent from the Linea Pro 7i contactless reader to the iOS device.

SERVICING YOUR LINEA PRO 7i

Battery Replacement

The Linea Pro 7i is designed with a 2400mAh battery, which you can replace.

Note: Replace battery only with a new, original battery using part number, PL-15-110.

To Replace the Battery:

1. Slide the battery latch, and then pull the battery cover up.
2. Remove the old battery by pulling it up.
3. Insert the side of the new battery with the contacting pads, and then press it down.
4. Before closing the battery cover, press the battery latch down and then press the battery cover in place. Slide the lever to the lock position.



TROUBLESHOOTING

Troubleshooting—Barcode Scanning

If the Linea Pro 7i is not scanning barcodes properly, refer to the table below for possible causes:

Problem	Possible Cause
Scanner does not power on	<ul style="list-style-type: none">• Linea Pro 7i battery is too low• Linea Pro 7i is not powered on by the software• Faulty scan engine
No barcode data being returned during scanning	<ul style="list-style-type: none">• Unreadable barcode• Linea Pro 7i battery is too low• Faulty scan engine• Software decoding incorrectly
Partial barcode data returned during scanning	<ul style="list-style-type: none">• Unreadable barcode• Linea Pro 7i battery is too low• Faulty scan engine• Software decoding incorrectly
Unable to perform multi-scanning	<ul style="list-style-type: none">• Multi-scan mode not enabled• Software does not support multi-scan
Unable to hear scanner beep	<ul style="list-style-type: none">• Sound mode not enabled• Linea Pro 7i battery is too low
Unable to scan certain barcode symbols	<ul style="list-style-type: none">• 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 7i is not reading the RFID Tags/Cards properly refer to the table below for possible causes:

Problem	Possible Cause
RFID does not power on	<ul style="list-style-type: none">• Battery is too low• Unit is not powered on by the software• Faulty RFID reader
No RFID data being returned during reading	<ul style="list-style-type: none">• Unreadable RFID tag/card• Battery is too low• Faulty RFID reader• Software decoding incorrectly
Partial RFID data returned during reading	<ul style="list-style-type: none">• Unreadable RFID tag/card• Battery is too low• Faulty RFID reader• Software decoding incorrectly
Unable to read some RFID Tags/Cards	<ul style="list-style-type: none">• RFID type is not compatible• RFID type is not supported• See Technical Data for additional information.

Note: If you continue having problems with your Linea Pro 7i, which are not resolved by referencing the table above, contact technical support at support@ipcmobile.com.

TECHNICAL DATA

MECHANICAL	
Processor	32-bit ARM™ Cortex™ - M3 MCU
Compatibility	iPhone 7 iPhone 8
Connectivity	Lightning™ connector Pass-through sync via USB Type-C charge/sync cable (Optional) Bluetooth 2.0 Class 2 -SPP Serial Port Profile <i>Note: Use only original USB-A to USB-C cable for charging iPhone. Use only UL approved USB adapters. The minimum requirements of USB adapters 5V 2.21A.</i>
Weight	160g (5.60 oz.) without iOS device
Dimensions	76mm x 25mm x 157mm (3.00" x 10.8" x 6.19")
Buttons	2 scan buttons (left and right)
Port	USB Type-C for device charge and sync
ELECTRICAL	
Barcode 1D and 2D Scanner	Supports all 1D Laser or 2D High Speed Imagers
Battery Capacity	Rechargeable Li-ion Battery 3.7V /2400 mAh Precise battery management by Fuel Gauge microcontroller for remaining battery capacity.
Battery Life	Up to 16,850 scans in a period approximately 26 hours on a full charge
Power Supply	DC 5V through USB Type-C DC 5V through charging station DC 5V through dual charging station
(Optional) Contactless Card Reader (RFID)	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
	JIS X 6319-4: - Compatible with FeliCa
	ISO/IEC 18000-3 mode 3: - NFC

Indicators	Audio—Electromagnetic Buzzer
CERTIFICATIONS	
General	CE
ENVIRONMENT	
Operating Environment	Temperature: -10°C to +40°C (<i>14°F to +104°F</i>)
	Humidity: 5% to 90% RH
Storage Environment	Temperature: -20°C to +50°C (<i>-4°F to +122°F</i>)
	Humidity: 5% to 90% RH

WARRANTY

Infinite Peripherals does not warrant, and is not responsible for, any damage to the Linea Pro 7i (“Product”) or the assembled iOS device as a result of liquid or solid particle intrusion into the Product, or damaged caused by dropping the Product with the assembled iOS device. If a material or workmanship defect arises with regard to any Infinite Peripherals product, and a valid claim is received within the Warranty Period, Infinite Peripherals (at our sole discretion) will repair the Product using new or refurbished parts, or replace the Product with a new or refurbished Product.

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 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.

PRODUCT RETURNS AND SERVICING

Use the link provided to create an account and gain access to our Knowledge Base and online support services.

Through our online support center, you'll be able to download files, open a Support Ticket, manage your RMAs, view your account Profile and subscribe to Alerts.

To request a RMA:

1. Create a user account in the RMA Support Portal at <http://ipcmobile.com/support/rma/>
2. Login to your user account, and then click Create RMA Request.
3. Read the instructions provided and complete the online request form.
4. Note the assigned RMA number and write it clearly on your shipping carton.
5. Ship your equipment back to us using the address provided

SYMBOLS FOR USE

Symbol	Definition
	Consult Instructions for Use
	Manufacturer
	Manufacture Date
	Caution
	Serial Number
	Part Number
	Waste Electrical and Electric Equipment
	Complies with part 15 of the FCC rules