



**USER MANUAL**

# Linea® Pro 7 UHF

For iPhone® 6s / 7 / 8





# Contact Information

## Mobility Sales/ Technical Support Center

Infinite Peripherals, Inc.  
17681 Mitchell N  
Irvine, CA 92614

Toll-Free: (877) 278-7860

Office: (949) 222-0300

Website: [ipcmobile.com](http://ipcmobile.com)

## Headquarters/ Main Warehouse

Infinite Peripherals, Inc.  
2312 Touhy Avenue  
Elk Grove Village, IL 60007

Toll-Free: (800) 278-7860

Office: (847) 818-1260

Fax: (847) 818-1287

## Legal Notice

"Made for iPhone" (MFI) 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 an iPhone may affect wireless performance.

## Compatible Devices

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### iOS Compatibility

iPhone 6s / 7 / 8

## Trademarks

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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# Overview

The Linea Pro 7 UHF combines 1D/2D reader and UHF RFID reader functionality into a single device. A high-performance optical imager scans thousands of barcodes on a full charge. Optional high-frequency RFID capabilities is also available.

## Features

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### 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 a LCD screen.

### UHF/RFID

Built-in UHF Class 1 Gen 2 RFID tag/card reader. The RFID reader incorporates several RFID formats based on the model of your Linea pro UHF.

### Indicators

- Battery status button/LED fuel gauge
- Manual reset button
- Two scan buttons — one of the left side and one on the right side

### (Optional) HF RFID

The high-frequency RFID functionality is optional.

#### Note:

Bluetooth is not offered.

## Accessories

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Visit our website at <https://ipcmobile.com> or contact your Infinite Peripherals account representative for additional information about our current and future product accessories.



# Technical Specifications

## Physical Dimensions

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### Compatibility

iPhone 6s, 7, 8

### Dimensions (L x W x H)

76.9mm x 156.7mm x 26.3mm (3.03" x 16.7" x 1.04")

### Buttons

Two scan buttons  
Battery status buttons  
Manual reset button

### Weight

148g (5.22oz)

## Connectivity

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### Barcode Scanner

1D/2D high-speed imager with laser aimer supports all major barcodes

### Battery

Rechargeable Lithium-Polymer battery 3.7V/2400 mAh  
Precise battery management by the fuel gauge  
Micro-controller for remaining battery capacity

### UHF Reader (Class 1 Gen 2)

ISO/IEC 14443 Type A-4/MIFARE

- \* MIFARE CLASSIC-1K, MIFARE CLASSIC-4K
- \* MIFARE ULTRALIGHT, ULTRALIGHT-C
- \* MIFARE PLUS 2K/4K
- \* MIFARE DESFire

ISO/IEC 14443 Type-B: supports most of the cards

ISO/IEC 15693: supports most of the cards

JIS X 6319-4: compatible with FeliCa

ISO/IEC 18000-3 mode 3

### Power Adapter

5V 2.4A power supply (Not Included)

### Input/Output Ports

USB Type-C

### Audio/Visual

Apple iPhone audio speakers  
Microphone  
Front and back camera

### Indicators

Electromagnetic buzzer

### HF RFID Reader (Optional)

ISO 18000-6C/EPC Gen 2 V2

Compatible bands: Narrow and wide US, Korean, China, Japan, EU, Brazil

## Certifications

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CE, FCC, RoHS compliant

## Environment

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### Temperature

Operation: +10°C to +40°C (+50°F to +104°F)  
Storage: -20°C to +50°C (-4°F to +122°F)

### Relative Humidity

Operation and Storage: 5%-90%



# Box Contents

- Before using your Linea Pro 7 UHF, remove the unit and any included accessories from the shipping carton and verify the contents against the 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 technical support at <https://ipcmobile.com/devices>.
- Ensure the battery is fully charged prior to initial use.

These items are included with your unit:

## Linea Pro 7 UHF (1)



## Standard Battery (1)



## USB Type-C™ charge/sync cable (1)



**Note:**

Box contents and part numbers vary based on your order configuration.

# Getting Started

The Linea Pro 7 UHF allows you to scan barcodes, read UHF RFID tags and pass that data into compatible iOS applications.

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

What to do	Section
Assemble the Linea Pro 7 UHF with your iOS device	Assembling Your Linea Pro 7 UHF
Fully charge battery before first use	Charging Your Linea Pro 7 UHF
Software required to operate the unit with you iOS device	Developing Applications for Your Linea Pro 7 UHF
Initialize barcode scanner and/or RFID functionality	Turn on Your Linea Pro 7 UHF

**Note:**

Use of the barcode scanning and RFID reader features requires the installation of software. Contact your Infinite Peripherals account representative for available software.



# Product Description





# Assembling Your Linea Pro 7 UHF

1. Slide your iOS device into the Linea Pro 7 UHF.
2. Ensure the iOS device is seated securely with the top cap closed and snapped tight.
3. Plug the USB Type-C end of the charging cable into the bottom of the unit.

## Battery Charging

The Linea Pro 7 UHF uses a Lithium-ion rechargeable battery and can be charged through the USB-C port. The charging time is approximately 3 hours and 30 minutes, if fully discharged.

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

**Note:**

To prevent electrical damage to the unit or battery, ensure the charging cables are the approved USB Type-C.

- To charge the Linea Pro 7 UHF, connect the USB Type-C charging cable to the USB port.



## Battery and Device Status

To check the battery status, open the application on your iOS device and view the device data. Your iOS device must be connected to the Linea Pro 7 UHF before you can check the battery status.

**Note:**

When the status is above 20%, set the automated charge functionality to automatically charge the iOS battery.

LEDs	Description
Blue	<ul style="list-style-type: none"> <li>• Rapid flashing indicates an active connection with the iOS device.</li> <li>• Slow flashing indicates there is no connection with the iOS device.</li> </ul>
Green	<ul style="list-style-type: none"> <li>• Rapid flashing indicates the battery is charging.</li> <li>• Solid green indicates the battery is fully charged.</li> </ul>





# Developing Linea Pro 7 UHF Apps

Software is not provided with your Linea Pro 7 UHF. Please contact your reseller or Infinite Peripherals for Third Party software solutions. Integrating the Linea Pro 7 UHF into your iOS application requires the use of the Infinite Peripherals Universal Software Developers Kit (SDK).

The SDK incorporates an API specifically for developing applications to use Linea Pro 7 UHF 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

Configure these optional settings via the SDK.

### Charging Current

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Charging current may be set to 500mA (default) or 1000mA.

### Set Charging

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The Linea Pro 7 UHF can charge the iPhone using its internal battery by enabling the “setCharging” setting. When the Linea Pro 7 UHF battery is above 20%, it will then start to charge the iOS device battery.

### Enable Scan Button

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Select the Enable Scan button in the SDK.



## Scan Mode

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Linea Pro 7 UHF supports the following scan modes:

### 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

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When enabled and the USB Type-C cable is plugged in, the iOS device is synced with a Windows computer or an Apple MacOS.

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 7 UHF only charges, but does not scan.

To use the scanner again, the USB Type-C cable must be removed.

## Idle Time

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Default setting: 5400 seconds (90 minutes).



# Turn on the Linea Pro 7 UHF

Two scan buttons located on each side of the unit are dual purpose allowing you to turn on the unit or scan barcodes.

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

**Note:**

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



## Barcode/UHF Reader

The scan engine in the Linea Pro 7 UHF 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).

UHF tags may be read from a short-range distance of approximately 1m away.

These types of scanning modes are supported:

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

1. Hold the scanner with the aimer facing the target barcode.
2. Ensure every bar and space between the bars are covered by the beam during scanning.
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 device.



# UHF/RFID Reader

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

1. To activate the unit, press one of the scan buttons on the right or left side.
2. Place the RFID tag/card over the receiver/transmitter as indicated by the RFID label.

**Note:**

Data is sent from the Linea Pro 7 UHF RFID reader to the iOS device.

# Servicing the Linea Pro 7 UHF

The Linea Pro 7 UHF is designed with a 3.6V 2330mAh battery, which can be replaced. Contact your Infinite Peripherals account representative for details.



# Troubleshooting

## Barcode Scanner

Issue	Possible Cause
Scanner does not turn on	<ul style="list-style-type: none"> <li>Battery is too low.</li> <li>Software is not powering on the unit.</li> <li>Faulty scan engine.</li> </ul>
Data/partial data not returned during scanning	<ul style="list-style-type: none"> <li>Unreadable barcode.</li> <li>Battery is too low.</li> <li>Faulty scan engine.</li> <li>Software decoding incorrectly.</li> </ul>
Unable to perform multiscanning	<ul style="list-style-type: none"> <li>Multiscan not enabled.</li> <li>Multiscan not supported by software.</li> </ul>
Unable to scan specific barcodes	<ul style="list-style-type: none"> <li>Barcode type not enabled.</li> <li>Barcode type not supported.</li> <li>Refer to <a href="#">Technical Specifications</a> for additional information.</li> </ul>

## RFID Reader

Issue	Possible Cause
RFID reader does not turn on	<ul style="list-style-type: none"> <li>Battery is too low.</li> <li>Software is not powering on the unit.</li> <li>Faulty reader.</li> </ul>
Data/partial data not returned during reading	<ul style="list-style-type: none"> <li>Unreadable RFID tags/cards.</li> <li>Battery is too low.</li> <li>Faulty RFID reader.</li> <li>Software decoding incorrectly.</li> </ul>
Unable to scan specific tags or cards	<ul style="list-style-type: none"> <li>RFID type not enabled.</li> <li>RFID type not supported.</li> <li>Refer to <a href="#">Technical Specifications</a> for additional information.</li> </ul>

**Note:**

If problems persist with your Linea Pro 7 UHF, contact a Mobility Expert at <https://ipcmobile.com/devices/>.



# Warranty

Infinite Peripherals does not warrant, and is not responsible for, any damage to the Linea Pro 7 UHF (“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

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# Product Returns and Servicing









Use the link in step 1 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

Symbol	Description
	Refer to the instructions before using this product
	Manufacturer
	Manufacture Date
	Caution
	Serial Number
	Part Number
	Waste Electrical and Electric Equipment
	Complies with part 15 of the FCC rules

# 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.