



LineaPro-7 USER GUIDE



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REVISION HISTORY

Version	Data	Range	Change description	Author
1.0.0	13.02.2017	All document	First release	Viktor Kochev
1.1.0	26.03.2024	All document	Updated content	Rosen Ignatov

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REGULATORY

FCC NOTICE

FCC ID: YRW-LINEAPRO7M

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:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.




Specific Absorption Rate (SAR) information: This LineaPro-7 meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. FCC RF Exposure Information and Statement the SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. This device was tested for typical body-worn operations with the back of the LineaPro-7 kept 5mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain an 0mm separation distance between the user's body and the back of the LineaPro-7. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

1. Device Specifications

Keyboard and buttons	<ul style="list-style-type: none"> • Two scan buttons • Battery status button • Reset device button
Magnetic Card Reader	<ul style="list-style-type: none"> • Triple track bi-directional • AES-256 • DUKPT for AES-128 and 3DES
Contactless Card Reader (optional)	<ul style="list-style-type: none"> • ISO/IEC 14443 Type-A/MIFARE <ul style="list-style-type: none"> - MIFARE MINI - MIFARE CLASSIC-1K, MIFARE CLASSIC 4K - MIFARE ULTRALIGHT, ULTRALIGHT-C - MIFARE PLUS 2K/4K - MIFARE DESFire - and other • ISO/IEC 14443 Type-B <ul style="list-style-type: none"> - supports most of the cards • ISO/IEC 15693 <ul style="list-style-type: none"> - supports most of the cards • JIS X 6319-4 <ul style="list-style-type: none"> - compatible with FeliCa • ISO/IEC 18000-3 mode 3 <ul style="list-style-type: none"> - NFC
1D and 2D Barcode Reader	<ul style="list-style-type: none"> • ZEBRA SE4750MR OEM Array Imager Scan Engine - 1280 x 960 pixels (1D / 2D) (optional) • 1D Opticon MDL1000* - Laser Barcode Scan Engine (optional) • 2D Newland EM3096 CMOS Imager 752 x 480 pixels (optional) • 2D Opticon MDI-4100* CMOS Imager 640 x 480 pixels (optional) • 2D Honeywell N660x series CMOS Imager 844 x 640 pixels (optional) • 2D Motorola SE4710/PL3307 CMOS Imager 1280 x 800 pixels (optional)
Supported 1D and 2D Symbology	<ul style="list-style-type: none"> • 1D: All major 1D, Digimarc • 2D: PDF417, MicroPDF417, Datamatrix, QR Code, Micro QR Code, Aztec, Composite, TLC-39, MaxiCode, Dotcode; Grid Matrix • Postal: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), Mailmark
Connectivity	<ul style="list-style-type: none"> • Apple 9 pin connector • Pass-through sync through mini USB type C • Bluetooth 3.0 (option) -SPP – Serial Port Profile
Device compatibility	<ul style="list-style-type: none"> • iPhone 7
LED indication	<ul style="list-style-type: none"> • 4 LEDs for battery status
Audio features	<ul style="list-style-type: none"> • Electro-magnetic buzzer
Power supply	<ul style="list-style-type: none"> • DC 5V through mini USB type C • DC 5V through single or 5 station charger
Battery	<ul style="list-style-type: none"> • Rechargeable Li-Ion 3.6V/2330mAh <ul style="list-style-type: none"> - Precise battery management by Fuel Gauge microcontroller for remaining battery capacity
Dimensions W x D x H	77 x 157 x 27 mm
Weight	148 g without iPhone
Operation temperature range	-10 to +40°C/ 5 to 90% RH
Storage temperature	-20 to +50°C/5 to 90% RH
Compatible Accessories	<ul style="list-style-type: none"> • Single charger (GT1) • 5 stations charger (GT5) • Rugged protective holster (allows customer color customization)

*** Specification can be change without any notice.**

2. Box contents

Item	Descriptions	Image
1	LineaPro-7	
2	USB A to USB-C sync cable	
3	User manual	

3. General view



Picture 1

- 1 – Back cover
- 2 – 9pin lightning connector
- 3 – Scan engine
- 4 – Pads for Datecs Single or Five station power charger
- 5 – Scan buttons
- 6 – Reset button
- 7 – Battery level status LED indicators
- 8 – Mini USB C connector
- 9 – Magnetic stripe reader
- 10- Battery cover screw

4. Battery charging

4.1 Battery charging

Battery can be charging via mini USB type C port or from Datecs power station.
Please charge battery in operating ambient temp. 0°C to +40°C.

Use only approved USB power chargers and USB cables.

This product is intended to be supplied by a Listed Direct Power Unit marked "Class2" and 5.2V dc, 2000mA.

Use only Datecs power station, when is charging from charging pads.

Don't connect any other things to charging pads.

If the device is equipped with encrypted magnetic stripe reader do not discharge fully the battery.
Keep it charged all the time (when is possible).

4.2 Battery LED indications and status button

For checking battery level, can be pressed status button.



→ LED 1 is lights – battery level is between
1 -25%



→ LED 1 and 2 LED are light – battery level is between 26
-50%



→ LED 1, LED2 and LED3 are light – battery level is
between 51 -75%



→ LED 1, LED 2, LED 3 and LED 4 are light – battery level is
above 76%

Picture 2

Notes:

If the LineaPro-7 is equipped with magnetic stripe reader; the device will stop connection with iPhone7 when the battery is drained below 3.4V (will not allow connection with iPhone7)

Battery Status can be checked without attaching iPhone7 to LineaPro-7. Only press status button.

5. Inserting iPhone 7 into LineaPro-7

Take LineaPro-7 and lift the back cover, insert the iPhone 7 and close the back cover as shown on Picture 3.



Picture 3

6. Operating with LineaPro-7

For start operating with LineaPro-7 is need to be attached iPhone 7 and installed application for iOS.

For downloading the latest SDK please visit our website: www.datecs.bg

For wake up/start LineaPro-7 press scan button and unlock the iPhone 7 screen.

6.1. Starting application

Start application “LibraryDemo”, first tab is “Scanner”, on this tab is showed:

Firmware version of the LineaPro-7

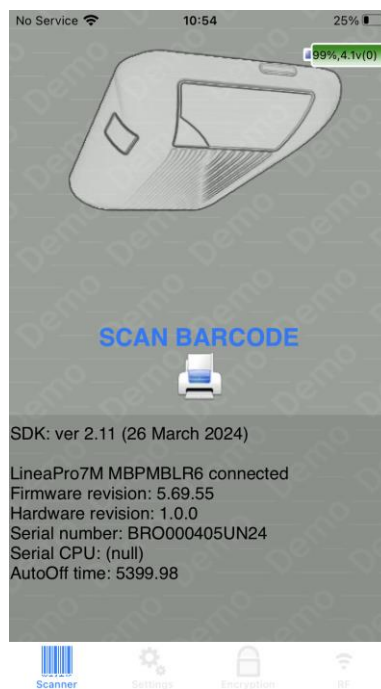
Hardware version of the LineaPro-7

Serial number of the LineaPro-7

Auto off time in seconds(this time is mean how many seconds will have LineaPro-7 active connection with iPhone 7. This time can be changed.)

EMSR FW version and Tampered status(If the device is equipped with encrypted magnetic head)

Battery level of LineaPro-7 in % and Voltage



Picture 4

When iPhone 7 is removed or active connection is closed, LineaPro-7 will go to sleep mode after 30 sec.

6.2. Scanning barcodes

LineaPro-7 can scan 1D and 2D barcodes. To scan barcode first activate the scanner. Then position the scanning head to the center of the barcode by aiming and the illumination box is over the outer edges of the barcode.



Picture 5

Slowly pull back or forward the unit, while increasing or decrease the distance between the barcode and the scanning head, until the barcode has been read by the scanner. Scanned barcode will be shown on first tab "Scanner"

LineaPro-7 supports scan modes:

- Single scan – one scan and scanner is turned off, until next pressing the scan button
- Multi scan – with holding scan button can be scanned many barcodes
- Motion detect – scanner is activated automatically when barcode is moved near to the barcode engine.
- Multi scan without duplicates – scanning many barcodes without duplicates.

6.3. Magnetic cards reading

The LineaPro 7 has a built-in magnetic card reader. The card reader incorporates a (3) track magnetic read head, requiring a single swipe to read field data from all three tracks.

The magnetic reading head faces up, towards the top of the bottom cover of the cradle. When swiping the card into the reader, the magnetic stripe must be facing down, as shown in the figure below. Keep the edge of the card flat on the inner base of the reader to ensure that the magnetic stripe passes over the reading head evenly.



Picture 6

6.4 Contactless cards reading

In order to use the contactless card reading function, special software must be used. Please contact your distributor in order to get the latest demo application and SDK.



Picture 7

Place the card on the shown spot and press the reading RFID card button on the application. The data will be sent from the LineaPro-7 Tab contactless reader to the Apple Device.

6.5 Enable/Disable Sync iPhone7 with PC or MAC

LineaPro-7 is supporting sync function when USB cable is plugged.

If the setting is enabled “pass-through sync”, when USB cable is plugged can be sync with PC or MAC.

If “pass-through sync” is disabled, when the USB cable is plugged will charge only.

6.6 Turn device off function

When is pressed this turn off, LineaPro-7 goes to sleep mode immediately.

iPhone7 charging and automatic charge

6.7 Updating LineaPro-7 firmware

LineaPro-7 firmware can be updated via SDK.

Press update button and will be shown current and available version, press again for update.

Note:

Before update please charge LineaPro-7 battery and iPhone 7 batteries.

Updating LineaPro-7 barcode engine firmware

Barcode engine firmware can be updated via SDK.

Note:

Before update please charge LineaPro-7 battery and iPhone 7 batteries.