



User Manual

INFINEA X



THE INFORMATION IN THIS DOCUMENT CANNOT BE REPRODUCED IN ANY MECHANICAL, ELECTRICAL OR ELECTRONIC WAY AND UNDER ANY CIRCUMSTANCES WITHOUT THE WRITTEN CONSENT FROM DATECS LTD.

VERSION: March 2016

Legal Notice

“Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, 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 iPod, or iPhone may affect wireless performance.

Compatibility

Made for

iPhone 5

iPhone 5S

iPhone SE

iPod touch (5th generation)

iPod touch (6th generation)

iPhone, iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.

FCC Notice**FCC ID: YRWDATECSBTIX**

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.

No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.

Exposure to Radio Frequency (RF) Signals

The Infinea X, incorporating the iPhone 5/iPod Touch, has been tested and meets applicable limits for radio frequency (RF) exposure. Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. The SAR limit is 1.6 watts per kilogram averaged over 1 gram of tissue.

During testing, the iPhone 5/iPod Touch devices, incorporated within the Infinea X, are set to their highest transmission levels and placed in positions that simulate use against the head, with no separation, and near the body, with 5mm separation. When using the incorporated iPhone 5/iPod Touch functionality, to reduce exposure to RF energy, use a hands-free option, such as the built-in speakerphone, the supplied headphones or other similar accessories. Carry the Infinea X at least 5mm away from your body to ensure exposure levels remain at or below the as-tested levels.

Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified.

The Infinea X complies with the FCC safety requirements for RF exposure in accordance with FCC rule part §2.1093 and KDB447498 D01 for portable use conditions.

The Infinea X, incorporating the iPhone 5/iPod Touch, must not be co-located or operated in conjunction with any other antenna nor transmitter.

CONTENTS

Legal Notice	3
Compatibility	3
1. Technical specification	6
2. Box Contents	7
3. General View	8
4. Operation Modes	11
4.1 Attaching device	11
4.2 Running device.....	11
4.3 Battery charging and status level	11
4.4 Scanning barcodes.....	12
4.5 Bluetooth connecting to iOS device for transferring audio	12
4.6 Clearing Bluetooth pairing info	13
4.7 Switching between Rear and Front Speakers.....	13
4.8 Automatic charge	13
4.9 Vibration on scan.....	13
4.10 Pass-through sync through mini USB	13
4.11 Reset the InfineaX.....	13
4.12 Scanning barcodes.....	13
4.13 RF card reading.....	14




1. Technical specification

Processor	32-bit ARM™ Cortex™ - M3 based Microcontroller
Contactless Card Reader (option)	<p>ISO/IEC 14443 Type-A/MIFARE:</p> <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 others <p>ISO/IEC 14443 Type-B:</p> <ul style="list-style-type: none"> - supports most of the cards <p>ISO/IEC 15693:</p> <ul style="list-style-type: none"> - supports most of the cards
Barcode Reader (option)	<ul style="list-style-type: none"> • Intermec EA-30* - Image Sensor 752 x 480 CMOS, High Performance 2D Imager Scan Engine • Intermec EA-31 - Image Sensor 752 x 480 CMOS, High Performance 2D Imager Scan Engine
Supported Barcode Types	<ul style="list-style-type: none"> • 2D* Imager Supported Symbologies: EAN/UPC, GS1 Databar (limited expanded & omni-directional), RSS, Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved/Matrix/Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, Postal codes: Australian Post, BPO, Canada Post, Dutch Post, Japan Post, PostNet, Sweden Post Data Matrix, PDF417, Micro PDF 417, Codablock, Maxicode, QR, Aztec, GS1 composite codes, Direct Part Marking Reading multicode
Battery	<p>Rechargeable hard pack Li-Ion Battery 3.7V / 1900 mAh</p> <p>Rechargeable hard pack Li-Ion Battery 3.7V / 3800 mAh (option)</p>
Connectivity	<ul style="list-style-type: none"> • Apple 9 pin connector • Pass-through sync through special 4 pin waterproof connector • Pass-through sync through mini USB • Bluetooth for audio signals transfer between InfineaX and iOS device
Device compatibility	Apple iPod 5 / iPod 6 / iPhone 5 / iPhone 5S / iPhone SE
Buttons	<ul style="list-style-type: none"> • Scan button • Battery status button
LED indication	18 LEDs for battery and emergency status
Audio indication	Electro-Magnetic Buzzer
Vibration capabilities	Micro Vibration Motor - Rated speed: 14,000 ± 2,000rpm
Sound capabilities	<ul style="list-style-type: none"> • 1.7-W mono fully differential audio power amplifier • Front Speaker – 150mW • Rear Speaker – 750mW • Electret Condenser Microphone
Certifications	CE, Apple® MFi

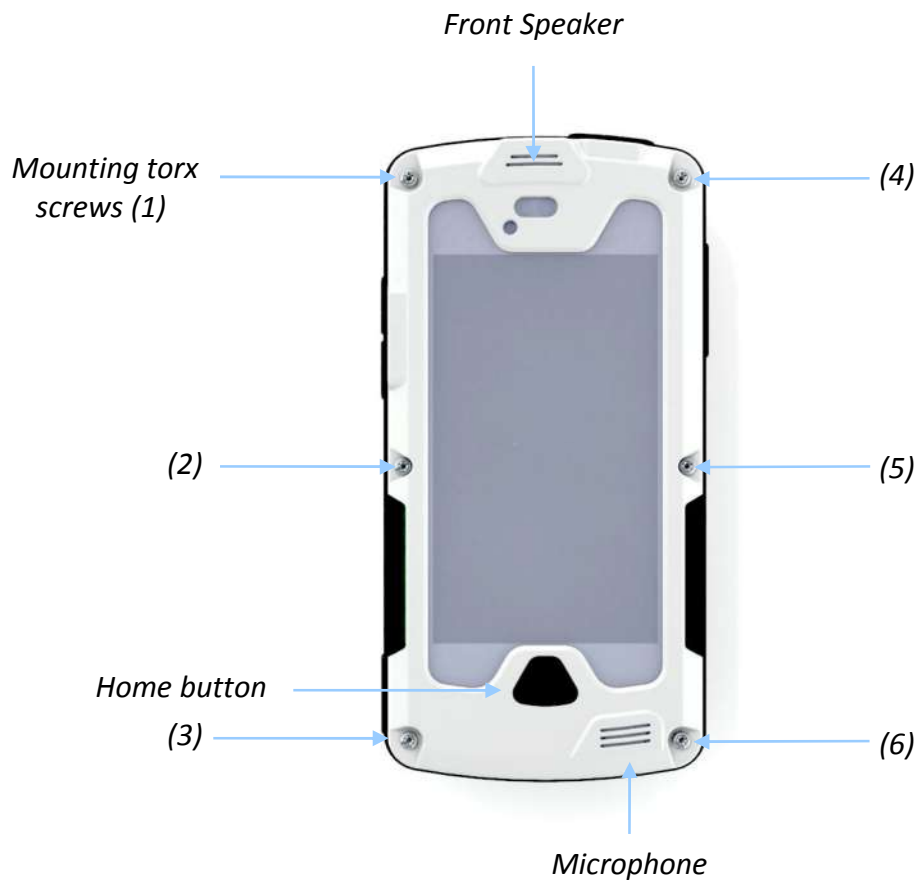
Weight, g	200 with battery and 2D barcode reader (without iPod/iPhone)
Dimensions (LxWxH), mm	148 x 72 x 31
Environmental	<ul style="list-style-type: none"> • Operating: -10°C to +40°C / 5% to 90% RH • Storage: -20°C to +50°C / 5% to 90% RH
Drop Test	1.5 m, 6 faces + 4 edges on concrete
Power Supply	<ul style="list-style-type: none"> • 5V through special 4 pin waterproof connector
Accessories	<ul style="list-style-type: none"> • Single station charger - SC-1 • 5 stations charger - GC-5

* Specifications subject to change without notice.

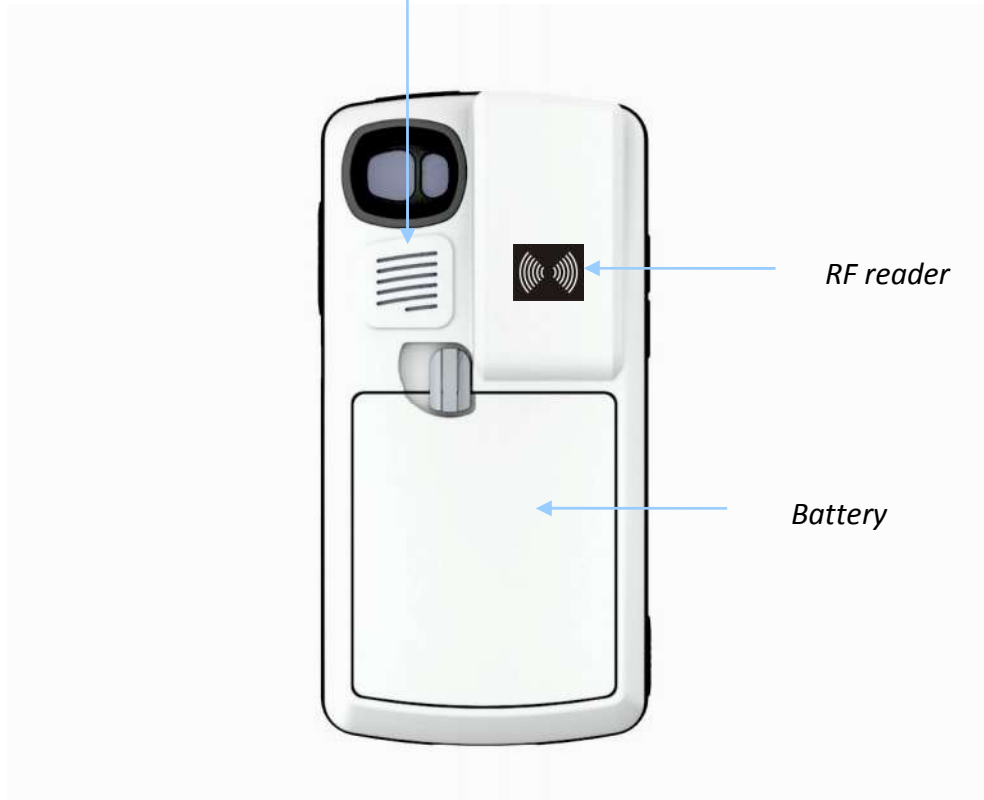
2. Box Contents

Item	Part Number	Descriptions	Image
1	InfineaX	InfineaX Scanner	
2	USB A to mini B(0.9m)	USB sync cable	
3	InfineaX User Manual	User's manual	
4	IX-BP	Li-Polymer Battery 3,7V	

3. General View



Rear Speaker



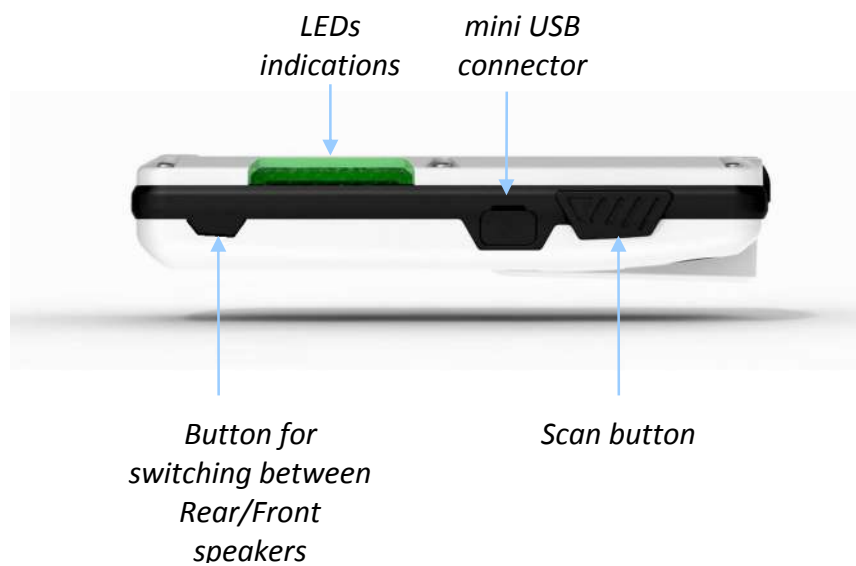
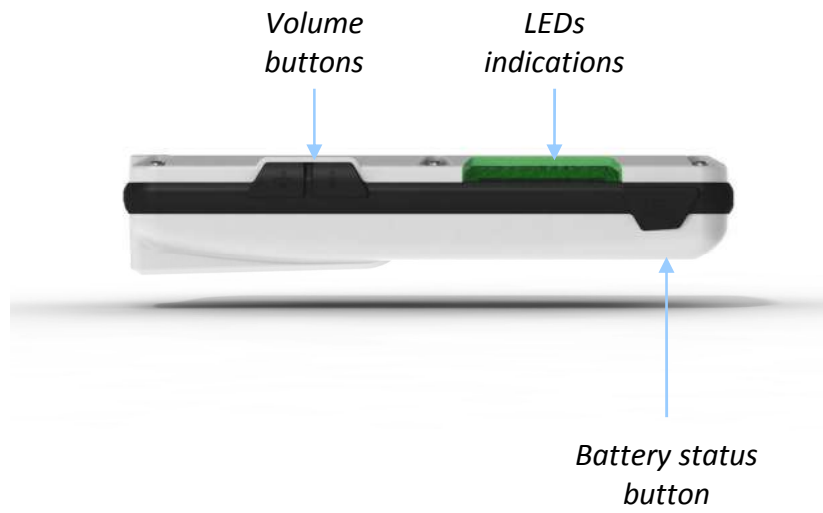
Pads for charging station and sync



Scan engine



On/Off button



4. Operation Modes

4.1 Attaching device

Remove all 6 mounting screws, slide device to 9-pin lightning connector. After that all 6 screws must be mounting again.

4.2 Running device

Important - Before first use, battery must be connect to the device.

Press one of these buttons; Scan, Status or Speaker Switch.

Run app "LibraryDemo", and device is ready for using (Pic.7).



Pic. 7

4.3 Battery charging and status level

This device can be charge from USB port or Datecs charging station.

Connect mini USB cable to USB port and charge will start. When the device is charging one green LED is light (Pic.8).



Pic. 8

Battery level status can be check, when is press battery status button:

- Battery percentage above 75% – LEDs flash on green
- Battery percentage between 50-75% – LEDs blinks on green
- Battery percentage between 25-50% – LEDs blinks on orange
- Battery percentage between 10-25% – LEDs blinks on red
- Battery percentage under 10% – One red LED is blinks

On the “LibraryDemo”, press battery indicator or battery level button (Pic.9):



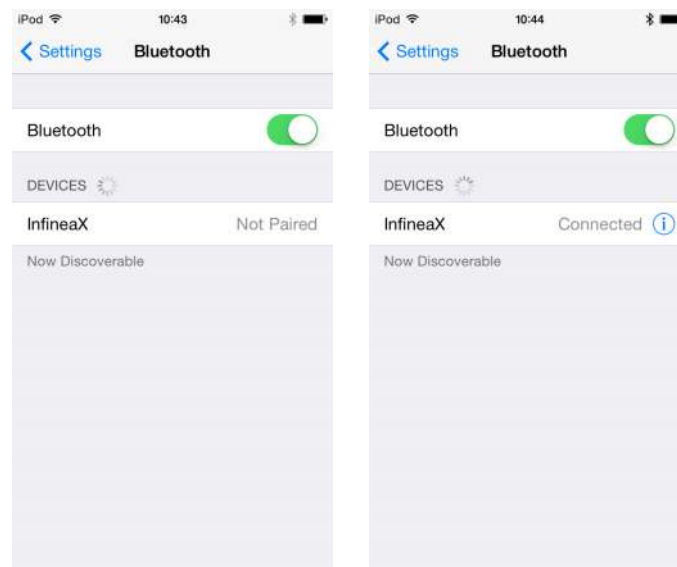
Pic. 9

4.4 Scanning barcodes

Turn scan engine to barcode and press “Scan barcode” or scan button.

4.5 Bluetooth connecting to iOS device for transferring audio

- For connecting InfineaX Bluetooth to iOS device, open setting and select Bluetooth, then on available Bluetooth device will shown “InfineaX”. Select that Bluetooth device.



Pic. 10 and 11

4.6 Clearing Bluetooth pairing info

- Hold on same time status and rear speaker button until the device is beep twice, if after that the devices is still not showing on iOS device available for connecting press on same “battery status” and “scan” button for ~5sec.

*Note: If after Bluetooth paring info clearing, InfineaX is not visible, perform with “Reset InfineaX” (4.11)

4.7 Switching between Rear and Front Speakers.

- For changing active speaker, press speaker switching button.
When the rear speaker is active, blue led is light.

4.8 Automatic charge

- When the battery level is above 3,9V – InfineaX is automatically start to charge iPhone5 or iPod5. (If the option is enabled in settings)

4.9 Vibration on scan

- This function can be enabled or disabled

4.10 Pass-through sync through mini USB

- This function can be enabled or disabled

4.11 Reset the InfineaX

- Holding on same time status and scan button for ~5sec

4.12 Scanning barcodes

The InfineaX 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.

Scanning Barcodes:

To scan a barcode fist activate the scanner. Then position the scan head to center the red aiming laser near the center of the barcode and the illumination box is over the outer edges of the barcode.

Slowly pull back the unit increasing the distance between the barcode and scan head until the barcode has been read by the scanner.

4.13 RF card reading

Start the app and select tab “RF”. Place the card on the spot with RF symbol (back side on barcode cover).