



Datalogic JOYA™ X2 R2U

"Ready to Use"



User Guide

Datalogic ADC, S.r.l.

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Patents

See www.patents.datalogic.com for patent list.

This product is covered by one or more of the following patents:

Design patents: AU323628, EP000891544, USD613289, ZL200830146270.9

Utility patents: EP0789315B1, EP1128315B1, EP1396811B1, EP1413971B1, US5992740, US6808114, US6997385, US7387246, US7620475

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Datalogic JOYA™ X2 R2U - User's Manual

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REFERENCES

CONVENTIONS

This manual uses the following conventions:

"JOYA™ X2" refers to all possible JOYA™ X2 hardware configurations, unless otherwise specified.

"User" refers to anyone using a Datalogic JOYA™ X2 mobile computer.

"Mobile computer" and "Datalogic JOYA™" refer to Datalogic JOYA™ X2.

"You" refers to the System Administrator or Technical Support person using this manual to install, configure, operate, maintain or troubleshoot a Datalogic JOYA™ X2.

"Cradle" refers to Datalogic JOYA™ X2 Cradle Dispenser.

REFERENCE DOCUMENTATION

For further information regarding Datalogic JOYA™ X2 refer to the SDK Help on-Line.

SAFETY REGULATIONS

**NOTE**

Read this manual carefully before performing any type of connection to the Datalogic JOYA™ X2 mobile computer. The user is responsible for any damages caused by incorrect use of the equipment or by inobservance of the indication supplied in this manual.

GENERAL SAFETY RULES

- Use only the components supplied by the manufacturer for the specific Datalogic JOYA™ X2 being used.
- Do not attempt to disassemble the Datalogic JOYA™ X2 mobile computer, as it does not contain parts that can be repaired by the user. Any tampering will invalidate the warranty.
- When replacing the battery pack or at the end of the operative life of the Datalogic JOYA™ X2 mobile computer, disposal must be performed in compliance with the laws in force.
- Before using the device and the battery pack, see par. 0 and read every warnings about the device and the battery pack.
- Do not submerge the Datalogic JOYA™ X2 in liquid products.
- The Datalogic JOYA™ X2 is designed and labelled to be compliant with laws, rules and regulations in force in the countries where it is sold.
- For further information, refer to this manual and to the Datalogic ADC web site: <http://www.adc.datalogic.com>.

BLUETOOTH® APPROVAL

For Bluetooth® approval visit:

https://www.bluetooth.org/tpg/QLI_viewQDL.cfm?qid=23316

FCC COMPLIANCE – JOYA X2**FCC Regulations:**

- 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.
- This device 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 radiated 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.

Change or Modifications that are not expressly approved by the manufacturer could void the user's authority to operate the equipment

The FCC/IC ID is located behind the battery. The product is sold without the battery installed.

RF EXPOSURE INFORMATION (SAR)

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum distance of 0 cm from the body.

The maximum SAR value is 0,748 W/kg for Body

Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this

model device is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on the below FCC IDs:
FCC ID: U4GJX2WB (for models with WLAN and BT)
FCC ID: U4GJX2W (for model with WLAN only)

This device is compliant with SAR for general population /uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

INDUSTRY CANADA COMPLIANCE – JOYA X2

This device complies with Industry Canada licence-exempt RSS standard(s).

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.

This Class B digital apparatus complies with Canadian ICES-003.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

The County Code Selection feature is disabled for products marketed in the US/Canada.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Ce dispositif et ses antennes ne doivent pas être co-implantés ou utilisés avec une autre antenne ou un autre émetteur

La fonction de sélection de code de pays est désactivée pour les produits commercialisés en Etats-Unis / Canada

IC RADIATION EXPOSURE STATEMENT

This EUT is compliant with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528. This equipment can be installed and operated with minimum distance of 0 cm between the radiator & your body.

SAR COMPLIANCE

This product has been tested and found to comply with the following standards:

- The portable device JOYA X2 from Datalogic is in compliance with the IC RSS 102 Issue 4 [RSS 102] and Federal Communications Commission (FCC) Guidelines [OET 65] for uncontrolled exposure. SAR assessment in body worn was conducted with the back of the device in direct contact against the flat phantom.
- The portable device Joya™ X2 from Datalogic is in compliance European Standard EN 50566: Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices used by the general public (30 MHz - 6 GHz)

WEEE COMPLIANCE

Informazione degli utenti ai sensi della Direttiva Europea 2012/19/EC

L'apparecchiatura che riporta il simbolo del bidone barrato deve essere smaltita, alla fine della sua vita utile, separatamente dai rifiuti urbani.

Smaltire l'apparecchiatura in conformità alla presente Direttiva consente di:

- Evitare possibili conseguenze negative per l'ambiente e per la salute umana che potrebbero invece essere causati dall'errato smaltimento dello stesso;
- Recuperare materiali di cui è composto al fine di ottenere un importante risparmio di energia e di risorse.

Per maggiori dettagli sulle modalità di smaltimento, contattare il Fornitore dal quale è stata acquistata l'apparecchiatura o consultare la sezione dedicata sul sito www.datalogic.com.

Information for the user in accordance with the European Commission Directive 2012/19/EC

At the end of its useful life, the product marked with the crossed out wheeled wastebin must be disposed of separately from urban waste.

Disposing of the product according to this Directive:

- avoids potentially negative consequences to the environment and human health which otherwise could be caused by incorrect disposal
- enables the recovery of materials to obtain a significant savings of energy and resources.

For more detailed information about disposal, contact the supplier that provided you with the product in question or consult the dedicated section at the website www.datalogic.com.

Information aux utilisateurs concernant la Directive Européenne 2012/19/EC

Au terme de sa vie utile, le produit qui porte le symbole d'un caisson à ordures barré ne doit pas être éliminé avec les déchets urbains.

Éliminer ce produit selon cette Directive permet de:

- éviter les retombées négatives pour l'environnement et la santé dérivant d'une élimination incorrecte
- récupérer les matériaux dans le but d'une économie importante en termes d'énergie et de ressources

Pour obtenir des informations complémentaires concernant l'élimination, veuillez contacter le fournisseur auprès duquel vous avez acheté le produit ou consulter la section consacrée au site Web www.datalogic.com.

Información para el usuario de acuerdo con la Directiva Europea 2012/19/CE

Al final de su vida útil, el producto marcado con un símbolo de contenedor de basura móvil tachado no debe eliminarse junto a los desechos urbanos.

Eliminar este producto de acuerdo con la Directiva permite de:

- evitar posibles consecuencias negativas para el medio ambiente y la salud derivadas de una eliminación inadecuada
- recuperar los materiales obteniendo así un ahorro importante de energía y recursos

Para obtener una información más detallada sobre la eliminación, por favor, póngase en contacto con el proveedor donde lo compró o consultar la sección dedicada en el Web site www.datalogic.com.

Benutzerinformation bezüglich Richtlinie 2012/19/EC der europäischen Kommission

Am Ende des Gerätelebenszyklus darf das Produkt nicht über den städtischen Hausmüll entsorgt werden. Eine entsprechende Mülltrennung ist erforderlich.

Beseitigung des Produkts entsprechend der Richtlinie:

- verhindert negative Auswirkungen für die Umwelt und die Gesundheit der Menschen
- ermöglicht die Wiederverwendung der Materialien und spart somit Energie und Ressourcen.

Weitere Informationen zu dieser Richtlinie erhalten sie von
ihrem Lieferanten
über den sie das Produkt erworben haben, oder besuchen sie
unsere Homepage
unter www.datalogic.com.

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WIRELESS AND RADIO FREQUENCIES WARNINGS**WARNING**

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals generated by Datalogic Joya™.

**WARNING**

Datalogic recommends persons with pacemakers or other medical devices to follow the same recommendations provided by Health Industry Manufacturers Associations for mobile phones.

Persons with pacemakers:

- *Should ALWAYS keep this device more than twenty five (25) cm from their pacemaker and/or any other medical device;*
- *Should not carry this device in a breast pocket;*
- *Should keep the device at the opposite side of the pacemaker and/or any other medical device;*
- *Should turn this device OFF or move it immediately AWAY if there is any reason to suspect that interference is taking place.*
- *Should ALWAYS read pacemaker or any other medical device guides or should consult the manufacturer of the medical device to determine if it is adequately shielded from external RF energy.*

In case of doubt concerning the use of wireless devices with an implanted medical device, contact your doctor.

**WARNING**

Turn this device OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may use equipment that could be sensitive to external RF energy.



Turn off the device when in any area with a potentially explosive atmosphere. Observe restrictions and follow closely any laws, regulations, warnings and best practices on the use of radio equipment near fuel storage areas or distribution fuel

WARNING *areas, chemical plants or where some operation involves use of explosive materials.*

Do not store or carry flammable liquids, explosive gases or materials with the device or its parts or accessories.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked or showed.

Sparks in such areas could cause an explosion or fire, resulting in injury or even death.

PATENTS

This product is covered by one or more of the following patents.

Design Pat.: EP 891,544; AU 323,628; US D 613,289 S; ZL 200830146270.9.

U.S. Pat. Nos: 5,992,740; 6,808,114 B1; 6,997,385 B2; 7,387,246 B2; 7,620,475 B2.

European Pat. Nos: 789,315 B1; 1,128,315 B1; 1,396,811 B1; 1,413,971 B1.

Additional patents pending.

WEEE COMPLIANCE



Informazione degli utenti ai sensi della Direttiva Europea 2012/19/EC

L'apparecchiatura che riporta il simbolo del bidone barrato deve essere smaltita, alla fine della sua vita utile, separatamente dai rifiuti urbani.

Smaltire l'apparecchiatura in conformità alla presente Direttiva consente di:

- Evitare possibili conseguenze negative per l'ambiente e per la salute umana che potrebbero invece essere causati dall'errato smaltimento dello stesso;
- Recuperare materiali di cui è composto al fine di ottenere un importante risparmio di energia e di risorse.

Per maggiori dettagli sulle modalità di smaltimento, contattare il Fornitore dal quale è stata acquistata l'apparecchiatura o consultare la sezione dedicata sul sito www.ADC.datalogic.com.

Information for the user in accordance with the European Commission Directive 2012/19/EC

At the end of its useful life, the product marked with the crossed out wheeled wastebin must be disposed of separately from urban waste.

Disposing of the product according to this Directive:

- avoids potentially negative consequences to the environment and human health which otherwise could be caused by incorrect disposal
- enables the recovery of materials to obtain a significant savings of energy and resources.

For more detailed information about disposal, contact the supplier that provided you with the product in question or consult the dedicated section at the website www.ADC.datalogic.com.

draft

Information aux utilisateurs concernant la Directive Européenne 2012/19/EC

Au terme de sa vie utile, le produit qui porte le symbole d'un caisson à ordures barré ne doit pas être éliminé avec les déchets urbains.

Éliminer ce produit selon cette Directive permet de:

- éviter les retombées négatives pour l'environnement et la santé dérivant d'une élimination incorrecte
- récupérer les matériaux dans le but d'une économie importante en termes d'énergie et de ressources

Pour obtenir des informations complémentaires concernant l'élimination, veuillez contacter le fournisseur auprès duquel vous avez acheté le produit ou consulter la section consacrée au site Web www.ADC.datalogic.com.

Información para el usuario de acuerdo con la Directiva Europea 2012/19/CE

Al final de su vida útil, el producto marcado con un símbolo de contenedor de basura móvil tachado no debe eliminarse junto a los desechos urbanos.

Eliminar este producto de acuerdo con la Directiva permite de:

- evitar posibles consecuencias negativas para el medio ambiente y la salud derivadas de una eliminación inadecuada
- recuperar los materiales obteniendo así un ahorro importante de energía y recursos

Para obtener una información más detallada sobre la eliminación, por favor, póngase en contacto con el proveedor donde lo compró o consultar la sección dedicada en el Web site www.ADC.datalogic.com.

Benutzerinformation bezüglich Richtlinie 2012/19/EC der europäischen Kommission

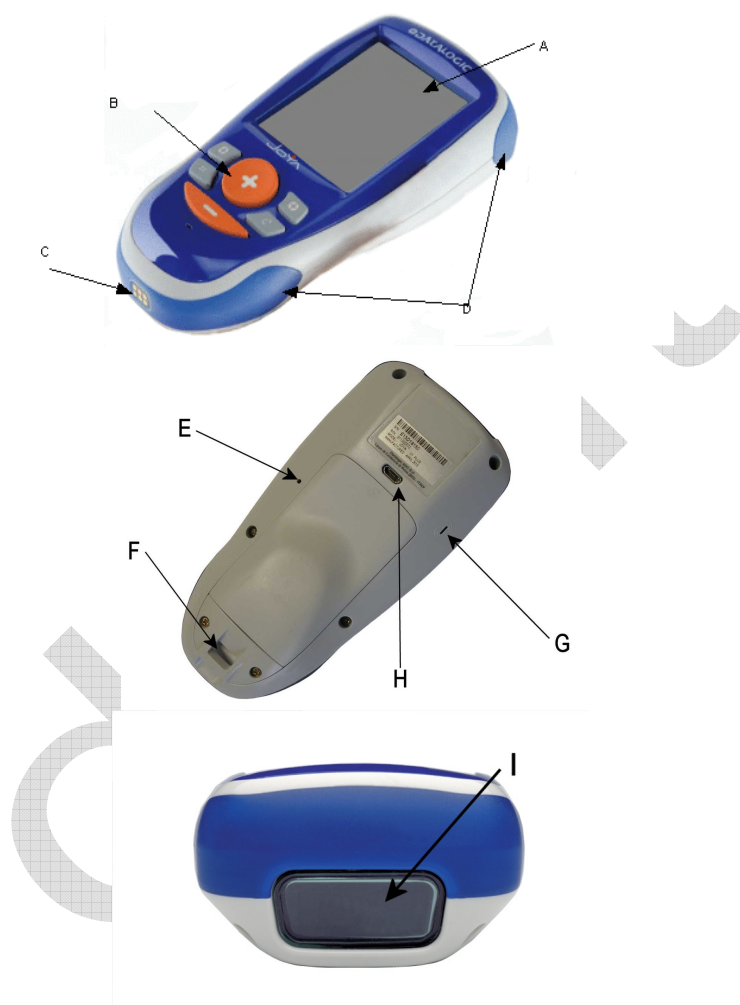
Am Ende des Gerätelebenszyklus darf das Produkt nicht über den städtischen Hausmüll entsorgt werden. Eine entsprechende Mülltrennung ist erforderlich.

Beseitigung des Produkts entsprechend der Richtlinie:

- verhindert negative Auswirkungen für die Umwelt und die Gesundheit der Menschen
- ermöglicht die Wiederverwendung der Materialien und spart somit Energie und Ressourcen.

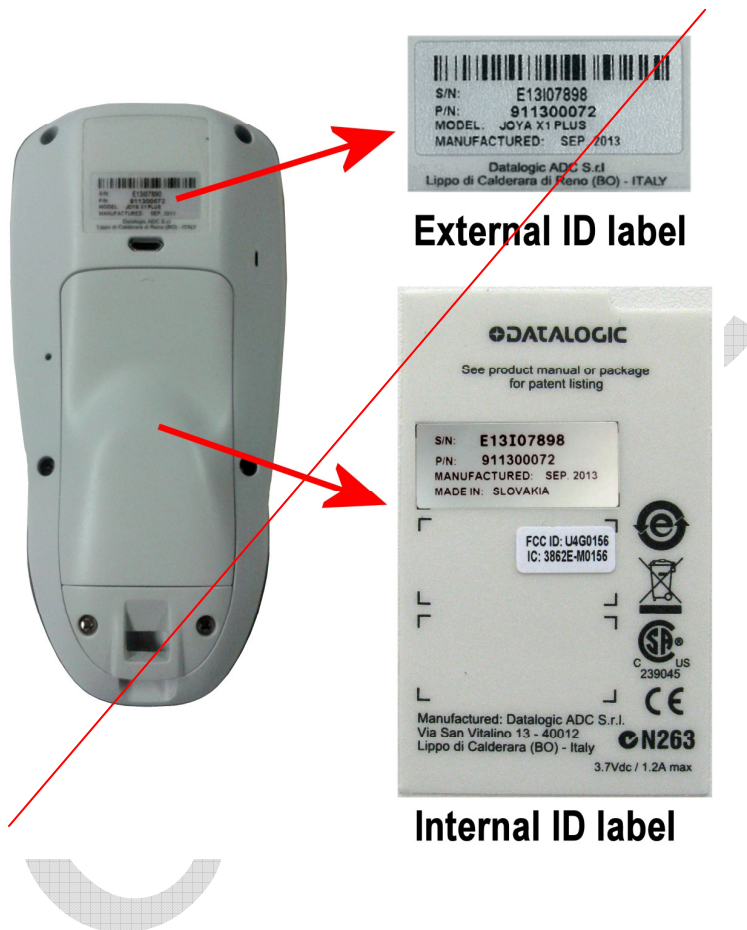
Weitere Informationen zu dieser Richtlinie erhalten sie von ihrem Lieferanten über den sie das Produkt erworben haben, oder besuchen sie unsere Homepage unter www.ADC.datalogic.com.

GENERAL VIEW



A) Display *	D) Bumper	G) Loudspeaker
B) 6 keys keyboard	E) Cold reset Hole	H) Micro USB
C) TTL Serial connector	F) Neck Strip Anchor	I) Reader window

*Remove protective film cover before use



1 INTRODUCTION

1.1 DATALOGIC JOYA™ X2 DESCRIPTION

The Datalogic JOYA™ X2 is a pocket-sized Windows powered mobile computer.

This extremely compact, lightweight, and versatile device, combines fully integrated automatic data capture (2D bar code) and wireless communication capabilities, supporting nearly any application.

The Datalogic JOYA™ X2 system architecture is based on the blend of Intel X-Scale series processors coupled with the Windows CE operating system and it was developed to meet the most demanding customer needs.

A huge quantity of on-board memory is available. It enables the user to adapt the terminal for any specific need.

Thanks to its great ergonomics and the state of the art architecture, the Datalogic JOYA™ X2 is the right answer to enhance your business opportunities.

1.2 MODEL DESCRIPTION

The brand new Datalogic JOYA™ X2 is available in several different models depending on the options it is equipped with. All options are listed below:

- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/512 MB Flash, 2D SE4500 Imager with Green Spot, Windows CE Core 6.0 + Avalanche.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/512 MB Flash, 2D SE4500 Imager with Green Spot, Windows CE Professional 6.0 + Avalanche.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/512 MB Flash, 2D SE4500 Imager with Green Spot, Windows CE Core 6.0 + Avalanche, Bluetooth®.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/512 MB Flash, 2D SE4500 Imager with Green Spot, Windows CE Professional 6.0 + Avalanche, Bluetooth®.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/512 MB Flash, 2D Halogen Imager with Green Spot, Windows CE Core 6.0 + Avalanche.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/512 MB Flash, 2D Halogen Imager with Green Spot, Windows CE Professional 6.0 + Avalanche.

- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/512 MB Flash, 2D Halogen Imager with Green Spot, Windows CE Core 6.0 + Avalanche, Bluetooth®.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/512 MB Flash, 2D Halogen Imager with Green Spot, Windows CE Professional 6.0 + Avalanche, Bluetooth®.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/1 GB Flash, uSD (4GB), touchscreen, 2D SE4500 Imager with Green Spot, Windows CE Core 6.0 + Avalanche.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/1 GB Flash, uSD (4GB), touchscreen, 2D SE4500 Imager with Green Spot, Windows CE Professional 6.0 + Avalanche.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/1 GB Flash, uSD (4GB), touchscreen, 2D SE4500 Imager with Green Spot, Windows CE Core 6.0 + Avalanche, Bluetooth®.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/1 GB Flash, uSD (4GB), touchscreen, 2D SE4500 Imager with Green Spot, Windows CE Professional 6.0 + Avalanche, Bluetooth®.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/1 GB Flash, uSD (4GB), touchscreen, 2D Halogen Imager with Green Spot, Windows CE Core 6.0 + Avalanche.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/1 GB Flash, uSD (4GB), touchscreen, 2D Halogen Imager with Green Spot, Windows CE Professional 6.0 + Avalanche.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/1 GB Flash, uSD (4GB), touchscreen, 2D Halogen Imager with Green Spot, Windows CE Core 6.0 + Avalanche, Bluetooth®.
- xxxxxxxx JOYA™ X2, 802.11 b/g/n CCX V4, 256 MB RAM/1 GB Flash, uSD (4GB), touchscreen, 2D Halogen Imager with Green Spot, Windows CE Professional 6.0 + Avalanche, Bluetooth®.

For further details about the Datalogic JOYA™ X2 models refer to the web site:
<http://www.JOYA.datalogic.com>.

1.3 PACKAGE CONTENTS

The Datalogic JOYA™ X2 package contains:

- 1 Datalogic JOYA™ X2 mobile computer

Remove all the components from their packaging; check their integrity and congruity with the packing documents.



CAUTION

Keep the original packaging for use when sending products to the technical assistance center. Damage caused by improper packaging is not covered under the warranty.



NOTE

Rechargeable battery packs are not initially charged. Therefore the initial operation to perform is to charge them.

1.4 ACCESSORIES

☐ Cradle

912201000 Datalogic JOYA™ X2 Cradle Dispenser

☐ Batteries

890002010 Datalogic JOYA™ X2 Battery Pack (10 pcs.)

☐ Cradle Accessories

91ACC1000 Power Supply 12V 300W

91ACC0730 Power Junction Cable I90x/3 Cradle (8 pcs.)

91ACC0650 Term. Unlock Magnets (5 pcs.)

☐ Various

94ACC1328 Datalogic JOYA™ X2 Stylus Pens (10 pcs)

91ACC1056 Datalogic JOYA™ X2 trolley holder (60 pcs.)

91ACC1057 Datalogic JOYA™ X2 checkout holder



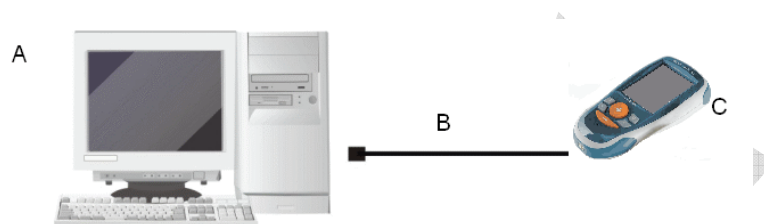
NOTE

Use only a Datalogic ADC-approved power supply and cables. Use of an alternative power supply will invalidate any approval given to this device and may be dangerous.

2 CONNECTIONS

2.1 USB CONNECTION

You can use any standard micro USB cable to directly connect the Datalogic JOYA™ X2 to a host computer to transfer data through the USB interface.



Key:

- A) Host Computer
- B) Standard Micro USB cable type USB A – micro USB B
- C) Datalogic JOYA™ X2



WARNING

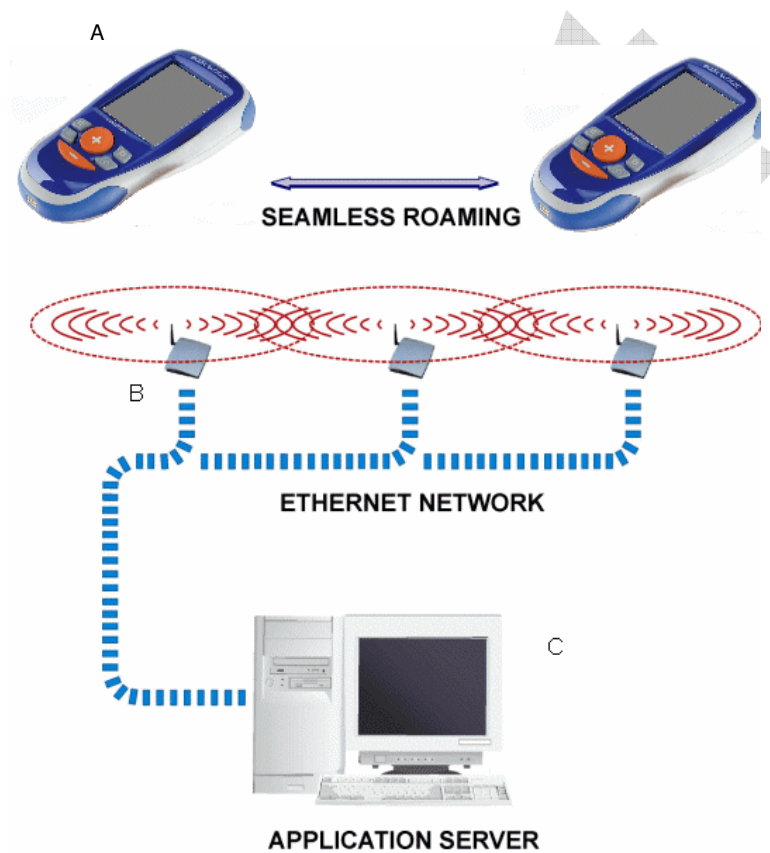
To comply with the FCC rules the EMI ferrite filter (Fair-Rite™ p.n. 0444164951) must be used and installed round the cable (see pictures below)



2.2 WLAN CONNECTION

Datalogic JOYA™ X2 Wi-Fi 802.11 b/g/n radio models can communicate with the host using the on-board radio frequency component and an Access Point connected to the host computer.

To launch this utility you can tap the specific icon if it's visible on the taskbar or you can open Connections folder or Control Panel from desktop and select the 'Summit Client Utility' icon.



Key:
Datalogic JOYA™ X2
Access Point
Host – Application Server



NOTE

Wi-Fi module is on by default, in order to avoid wasting energy, you can switch it off using the Wireless Communications applet.



NOTE

Suspending the terminal powers off the 802.11b/g/n radio and drops the radio connection. When the terminal resumes, depending on the radio power mode and security protocol selected, it may take up to 30 seconds for the 802.11b/g/n radio driver to re-associate the radio to the network.

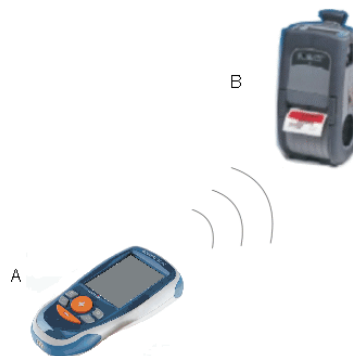


NOTE

Area coverage and radio performance may vary, due to environmental conditions, access points types or interference caused by other devices (microwave ovens, radio transmitters, etc.)

2.3 WPAN CONNECTIONS

Datalogic JOYA™ X2 mobile computer models can communicate with a Bluetooth® device, such as a printer, within a range of 10 m, using the on-board Bluetooth® module.



Key:

- A) Datalogic JOYA™ X2
- B) Bluetooth® printer

**NOTE**

In order to avoid wasting energy, the Bluetooth® module is off by default. If you need to have Bluetooth® working, the module must be powered on using the Wireless Communications applet and perform the Discovery procedure.

**NOTE**

Suspending the terminal powers off the Bluetooth® radio and drops the piconet (Bluetooth® connection). When the terminal resumes, it takes approximately 10 seconds for the Bluetooth® radio driver to re-initialize the radio.

**NOTE**

Area coverage and Bluetooth® radio performance may vary, due to environmental conditions or interference caused by other devices (microwave ovens, radio transmitters, etc.), etc.

3 USE AND FUNCTIONING

The use of the Datalogic JOYA™ X2 depends on the application software loaded. However there are several parameters that can be set and utilities that can be used to perform some basic functions such as data capture, communications, file management, etc.

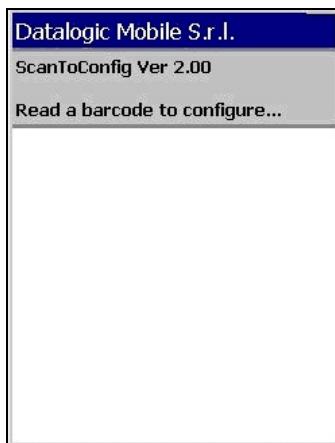
Furthermore there are two major utilities embedded in the software provided from factory:

- ScanToConfig
- Avalanche Enabler

3.1 STARTUP

The Datalogic JOYA™ X2 turns on when a charged battery pack is inserted.

As soon as the mobile computer is on, the “ScanToConfig” request screen appears and stays on for five seconds:



By pressing the "+" key, the reader beam is lit. By reading different predefined barcodes, different actions are performed. In particular it is possible to:



AVALANCHE-S2C

Start the Wavelink Avalanche Enabler-application interface (embedded);



TOOL-CRADLE

Start the "JOYA Cradle Tool" application if present in \BACKUP\CTOOLS;



TOOL-DIAGNOSTIC

Start "JOYA Diagnostic Tool" application if present in \BACKUP\CTOOLS;



DEV-HRD-RST

Perform a hardware reset;



DEV-SFT-RST

Perform a software reset;



Enable the reader trigger when the "+" key is pressed. Default is "enabled";



A reset (either HW or SW) is required to confirm the choice.



Disable the reader trigger when the "+" key is pressed.



A reset (either HW or SW) is required to confirm the choice.

When the ScanToConfig timeout expires, Windows CE desktop will appear on the screen. Wait a few seconds before starting any activity so that the mobile computer completes its startup procedure.



The mobile computer goes into power-off (low power with display and keyboard backlight off), when it is no longer used for more than a programmable timeout,

which is defined in the POWER applet of the Control Panel. In this mode it can be awakened (resuming operation) pressing the “Up” Key.

**NOTE**

The mobile computer can also be awakened or turned off by the application program.

3.2 AVALANCHE ENABLER

By scanning the AVALANCHE-S2C barcode, user can start the avalanche enabler interface. First screen ask for the barcode setup sequence

Scan Configuration

Passcode:

Remaining:

Scanned:

Type: Enabler Scanner Interface

☐ Do not show this dialog at Startup

Scanner Ready

At this point, user must scan the previously generated barcodes to properly configure the radio interface. Barcodes can be scanned in any order, Scan Configuration screen will report about scanned and remaining barcodes.

Scan Configuration

Passcode:

Remaining: 2,3,4

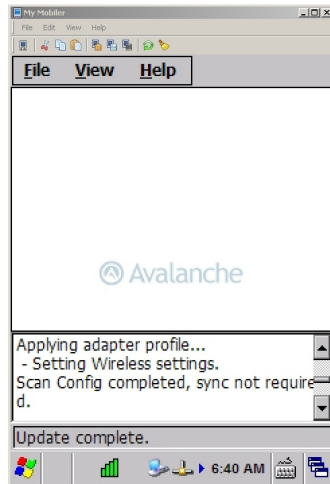
Scanned: 1

Type: Enabler Scanner Interface

☐ Do not show this dialog at Startup

Valid Config Barcode.

Then Avalanche Enabler connects the server and downloads suitable information in term of “packages”. These packages are previously created by using the Avalanche Package Builder.



3.3 WAVELINK AVALANCHE SYSTEM

Is a client management system that automatically deploys software and configuration updates to JOYA™ X2. Avalanche uses "push/pull" technology to install, update, and manage the software and configurations of JOYA™ X2 and other mobile devices. For detailed information please refer directly to the Wavelink website:

<http://www.wavelink.com/>

The Wavelink Avalanche system includes three primary components:

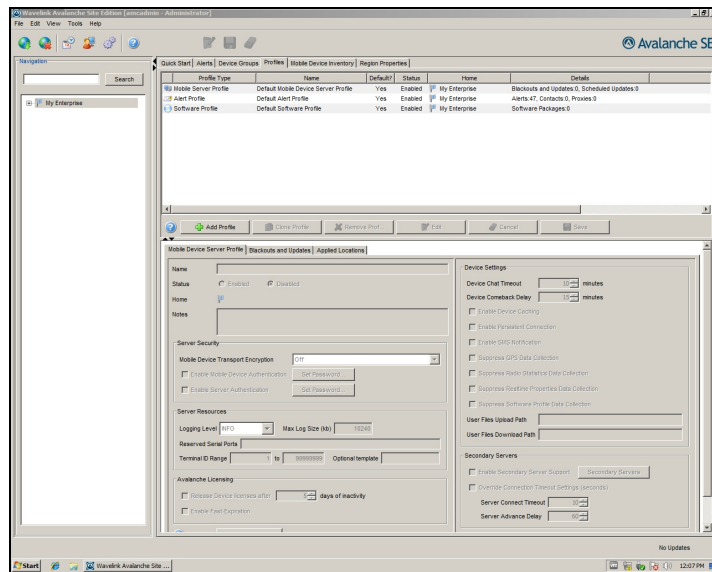
Avalanche Manager: This tool provides centralized client management within a network. The Avalanche Manager consists of two applications: Avalanche Manager Agent and the Avalanche Management Console. The Agent performs the management functions on the LAN or WAN, while the Management Console provides an administrative interface to one or more Manager Agents

Avalanche Enabler: This tool is an agent that runs on each JOYA™ X2 to allow device management via Avalanche Manager.

Avalanche-enabled software packages: These software packages are intended to run on the JOYA™ X2 and include settings and applications. The Avalanche Enabler is embedded in the JOYA™ X2 allowing communicating directly with the Avalanche Manager over a wireless connection. The Enabler and the Avalanche Manager work together to synchronize software on the JOYA™ X2 to an associated profile on the Management Console. The profile can include one or more distinct software packages, as well as RF and TCP/IP configurations, and can apply to multiple devices.

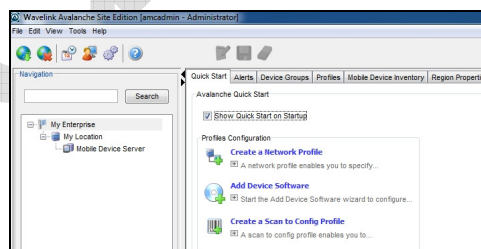
3.4 AVALANCHE MANAGEMENT CONSOLE

The Avalanche Management Console provides an administrative interface to one or more Manager Agents. After installing, click on the Avalanche shortcut on desktop or select *Avalanche SE Console* from *All Programs -> Wavelink Avalanche SE* menu.

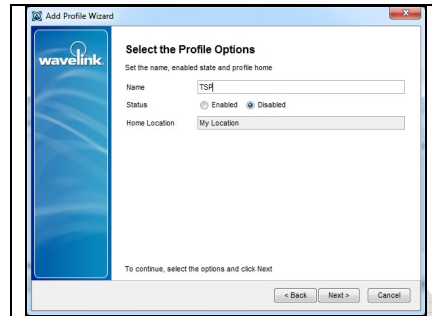


3.4.1 Network profile

Define the way each JOYA™ X2 terminal will connect the network.

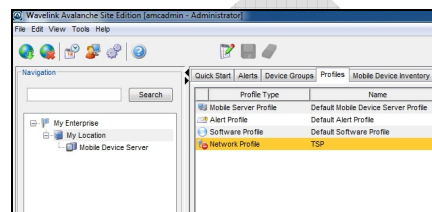


To create a Network Profile select the tab *Quick Start*, click on *Create a Network Profile*.

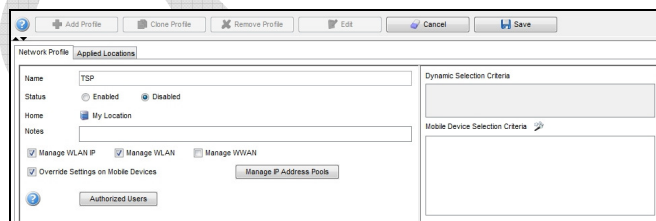


Insert a suitable profile name, leave status disabled then click *Next*.

Skip the *Profile Selection Criteria* screen then select *Finish* in the *Review Profile Settings* screen. A new line named *Network Profile* will appear on the right part of the main screen



Keep the *Network profile* line previously created highlighted. Click on the *Edit* button on the top lower part of the main screen. Check the *Manage WLAN IP*, the *Manage WLAN* and the *Override Settings on Mobile Devices* boxes.



On the lower part of the main screen select the *WLAN IP Settings* tab. Check the box *Manage IP Assignment* and select *DHCP Server* on the side drop-down menu. Check the box *Server Address* and enter the DHCP server IP address in decimal dotted notation.

Check the box *Subnet Mask* and enter the subnet mask in decimal dotted notation.

The screenshot shows the 'WLAN Settings' tab in a configuration window. Under 'Mobile Device IP Settings', the 'Manage IP Assignment' checkbox is checked, and 'DHCP Server' is selected. Below this, the 'Subnet Mask' checkbox is checked, and the value '255.255.255.0' is entered in the adjacent field. Other fields include 'Server Address' (10.1.1.2), 'Gateway Address' (0.0.0.0), and 'Domain Name System (DNS)' settings.

On the lower part of the main screen select the *WLAN Settings* tab. Check the box *SSID* and enter the wifi SSID key. In the *Encryption Settings* area enter the suitable values for the wifi communication (encryption type and key value).

The screenshot shows the 'WLAN Settings' tab. The 'SSID' checkbox is checked, and the value 'isp' is entered. In the 'Encryption Settings' section, 'WEP' is selected for encryption, and '128 Bit' is chosen for the key size. The 'Key 1' field is filled with asterisks. The 'Authentication Settings' section shows 'None' selected for authentication.

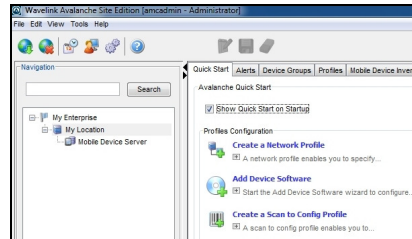
Click on the *Save* button to confirm modifications.

The screenshot shows the 'Network Profile' configuration screen. The 'Save' button in the top right corner is highlighted with a red arrow. The screen displays various settings for a network profile, including 'Name' (TSP), 'Status' (Disabled), 'Home' (My Location), and checkboxes for 'Manage WLAN', 'Manage WWAN', and 'Override Settings on Mobile Devices'.

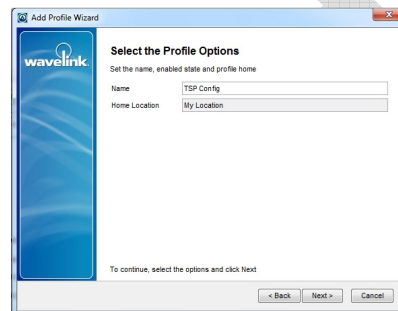
3.4.2 ScanToConfig Profile

Avalanche allows creating ScanToConfig profiles (setup by scanning barcodes) that are configured with network settings. User can then print the profiles as barcodes and a JOYA™ X2 can scan these barcodes. The information from the scanned barcodes is used to configure the network settings on the JOYA™ X2

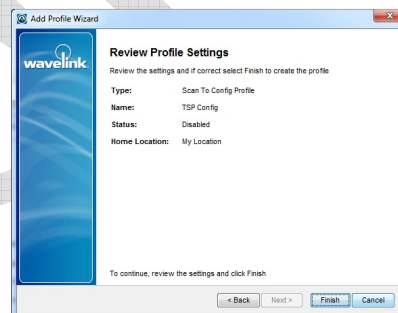
such as the IP address, subnet mask, and gateway as well as wireless parameters such as SSID, encryption rules and keys etc... The length of the barcode is configurable.



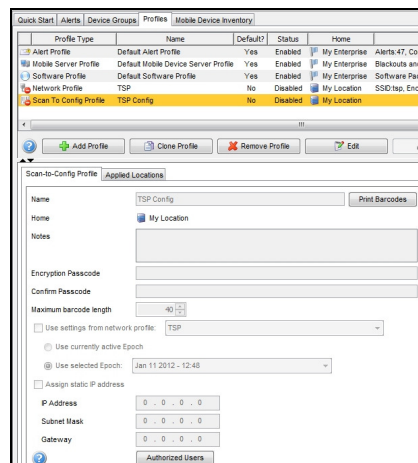
To create a Network Profile select the tab *Quick Start*, click on *Create a Scan to Config Profile*.



Enter a suitable Network Profile name then click *Next*

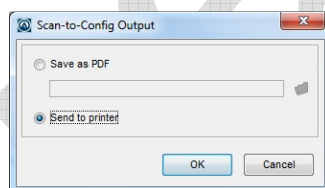


Verify and confirm by clicking on *Finish*. A new line named *Scan To Config Profile* will appear on the right part of the main screen

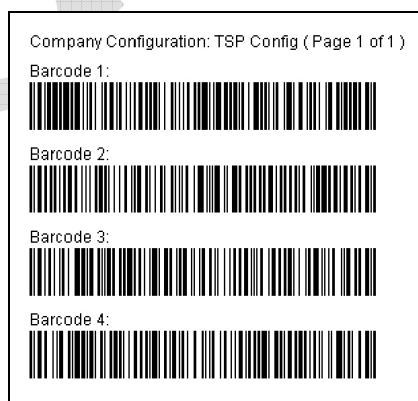


Be sure that the *Scan To Config Profile* line is highlighted then press the *Edit* key. Check the box *Use settings from network profile* and verify the network profile name selected in the right windows. Confirm by clicking the *Save* key.

Select the *Scan To Config Profile* line then press the *Print Barcodes* key.



Select *Save as PDF* then click on the folder icon and enter a suitable name and path for the output file. Then a PDF file will be created.



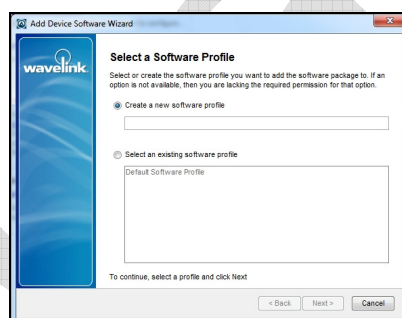
Make a paper copy and use it for JOYA™ X2 configuration.

When the device is properly configured and connected to the Avalanche server it will be reported in the *Mobile Device Inventory* tab.

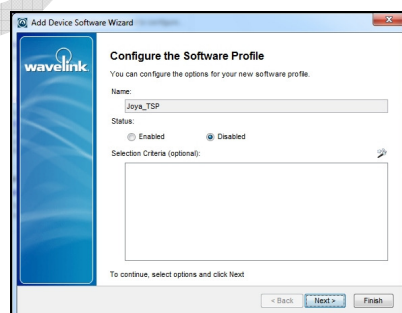
Quick Start Alerts Device Groups Profiles Mobile Device Inventory Region Properties							
Current Mobile Device Filter: No Filter Applied							
Apply Filter Edit Filters...							
	Model Name	Terminal ID	MAC Address	IP Address	Status	Last Contact	Recent Activity
	DLGJOYAX2	1	00-17-23-C0-AD-7B	10.1.1.11		16:53:59	Update Pending
	DLGJOYAX2	1119	00-17-23-C0-C5-9D	10.1.1.12		16:51:58	Update Pending

3.4.3 Software profile

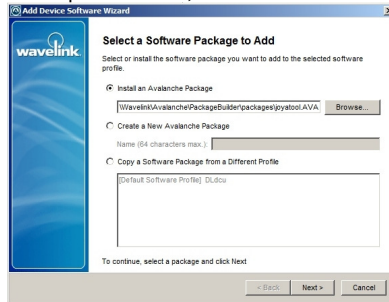
Software profiles allow user to organize and configure software for deployment to JOYA™ X2 terminal, as well as change device parameters. Add software packages to the profile, configure them, and schedule how and when they will be installed. When the profile is enabled and applied to a location, the software packages associated with the profile are installed on JOYA™ X2 terminals meeting the selection criteria for the profile and packages.



To create new software profile, from the *Quick Start* tab select *Add Device Software*.

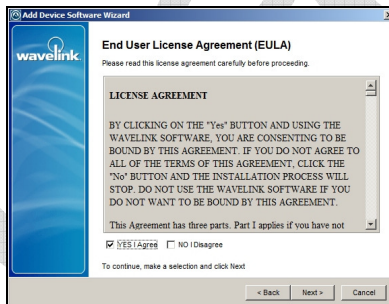


Insert a suitable software profile name, leave status disabled then click *Next*.

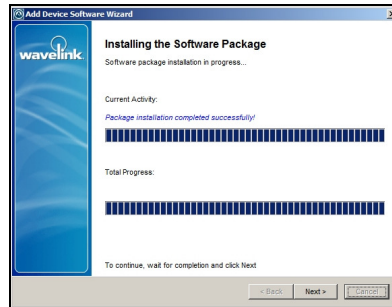


You can add packages, copy packages that have already been added to a different profile, or create custom software packages from the Avalanche Console. Before you create a custom package, ensure you know the location of all the files you want to include and ensure that the files are valid.

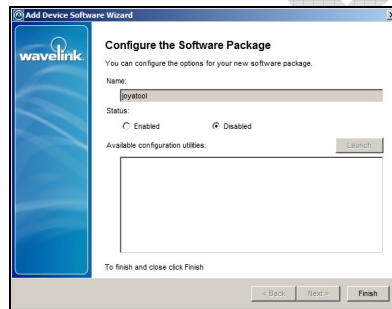
In the example select a previously created Software Package (AVA extension) then *Next*.



Check the license agreement and confirm with *Next*.



Wait for installation then click *Next*.



Close this wizard with *Finish*.

Once you create a software profile, you must enable/disable and add/remove the software packages to that profile. Through the software profile you can configure the software package settings and then deploy the packages to specific mobile devices.

When working in software profiles, you do not need to be in Edit Mode to add or configure software packages. Software package configuration changes are saved to the actual package. However, you must enter Edit Mode to configure any other software package options.

3.4.4 DLdcu package

The Datalogic Configuration Utility for Avalanche is a preassembled Avalanche package (AVA extension) specifically created and freely distributed, aimed to deploy configuration parameters on different mobile devices manufactured by Datalogic through the Avalanche platform. Usually this package is assigned to the default profile.



In order to install the DLdcu Avalanche Package you first must install the DCU program in the PC.

Profile Type	Name	Default?	Status	Home	Details
Mobile Server Profile	Default Mobile Device Server Profile	Yes	Enabled	My Enterprise	Blackouts and Updates 0, Scheduled Updates 0
Alert Profile	Default Alert Profile	Yes	Enabled	My Enterprise	Alerts 47, Contacts 0, Proxes 0
Software Profile	Default Software Profile	Yes	Enabled	My Enterprise	Software Packages 0
Network Profile	tap	No	Enabled	My Location	SSD/tap, Encryption Use Profile / None, Auth.
Scan To Config Profile	stc	No	Enabled	My Location	

From the Profiles tab select *Software profile/Default Software Profile*.

On the lower part of the screen click on *Install Package*

Check *Install an Avalanche package*. Browse and select the *DLdcu3.AVA* file