DATALOGIC

Skorpio[™] X4 - WEC7 OS

Rugged Mobile Computer with 1D/2D Imager



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Patents

See <u>www.patents.datalogic.com</u> for patents list.

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NOTES

Introduction

Conventions

This manual uses the following conventions:

"Mobile computer" and "Skorpio X4" refer to Skorpio X4 mobile computer.

"Single Dock" refers to the Skorpio X4 Single Slot Dock.

The label artworks may be only a draft. Refer to the product labels for more precise information.

Product Presentation

Datalogic's Skorpio X4 mobile computer represents an important evolution for the extremely successful Skorpio product line of compact mobile computers that has set a new standard in the market! The strong commitment to the Retail market is confirmed, while Skorpio X4 represents a reliable and rugged companion for Manufacturing, Transportation & Logistics and Healthcare verticals in all their typical warehousing applications. Skorpio X4 features an all new architecture supporting tremendous speed improvements with Windows Embedded Compact (WEC7), while also supporting an easy migration path to Android.

Whether in department or specialty stores, in hyper stores and supermarkets, convenience stores, grocery or DIY, Datalogic's Skorpio X4 mobile computer fits most any retail in-store requirement for mobile data collection or validation. And with the optional pistolgrip, this unit is also ready for the demanding back-end receiving and warehousing environments as well!

The Skorpio X4 mobile computer is primarily used by the retail store associate for traditional shop floor applications, but can also be used for backend receiving activities.

Equipped with the largest high-visibility color graphics display (3.2 in.) in its class, the Skorpio X4 mobile computer helps users work more efficiently. With a choice of Windows Embedded or Android™ Operating Systems, the Skorpio X4 mobile computer delivers the ultimate in ergonomics, intuitive user interface, computing and data capture technologies, combined with best-in-class ruggedness.

Available Models

The Skorpio X4 is available in different models depending on the options it is equipped with. All options are listed below:

- communication options: 802.11 a/b/g/n radio, Bluetooth[®]
- data capture options: 1D, 2D imager
- keyboard options: full-alphanumeric, alphanumeric, numeric

For further details about the Skorpio X4 models refer to the web site:

http://www.datalogic.com.

For further information regarding WEC7 refer to the website: http://www.microsoft.com/windowsembedded.

Americas Models

WEC7 - Batch 1D

942500001 SKORPIO X4 000000TN0HN0W7

Skorpio X4 Handheld, Batch, 1GB RAM/8GB Flash, 28-Key Numeric, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7.

942500002 SKORPIO X4 000000TN0HS0W7

Skorpio X4 Handheld, Batch, 1GB RAM/8GB Flash, 38-Key Functional, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7.

WEC7 - Wi-Fi 1D Handheld

942550001 SKORPIO X4 00ANM4TN0HN0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 28-Key Numeric, Green

Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, FCC.

942550002 SKORPIO X4 00ANM4TN0HS0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 38-Key Functional, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, FCC.

942550003 SKORPIO X4 00ANM4TN0HF0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 50-Key Full Alpha Numeric, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, FCC.

EC7 - Wi-Fi 2D Handheld

942550004 SKORPIO X4 00ANM4HS0HN0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 28-Key Numeric, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, FCC.

942550005 SKORPIO X4 00ANM4HS0HS0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 38-Key Functional, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, FCC.

942550006 SKORPIO X4 00ANM4HS0HF0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 50-Key Full Alpha Numeric, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, FCC.

WEC7 - Wi-Fi 1D Pistol Grip

942600001 SKORPIO X4 00ANM4TN0GN0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 28-Key Numeric, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, FCC.

942600002 SKORPIO X4 00ANM4TN0GS0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 38-Key Functional, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, FCC.

942600003 SKORPIO X4 00ANM4TN0GF0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 50-Key Full Alpha Numeric, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, FCC.

WEC7 - Wi-Fi 2D Pistol Grip

942600004 SKORPIO X4 00ANM4HS0GN0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 28-Key Numeric, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, FCC.

942600005 SKORPIO X4 00ANM4HS0GS0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 38-Key Functional, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, FCC.

942600006 SKORPIO X4 00ANM4HS0GF0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 50-Key Full Alpha Numeric, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, FCC.

Europe and Row Models

WEC7 - Batch 1D

942500001 SKORPIO X4 000000TN0HN0W7

Skorpio X4 Handheld, Batch, 1GB RAM/8GB Flash, 28-Key Numeric, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7.

942500002 SKORPIO X4 000000TN0HS0W7

Skorpio X4 Handheld, Batch, 1GB RAM/8GB Flash, 38-Key Functional, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7.

WEC7 - Wi-Fi 1D Handheld

942550013 SKORPIO X4 E00ANM4TN0HN0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 28-Key Numeric, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, EU.

942550014 SKORPIO X4 E00ANM4TN0HS0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 38-Key Functional, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, EU.

942550015 SKORPIO X4 E00ANM4TN0HF0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 50-Key Full Alpha Numeric, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, EU.

EC7 - Wi-Fi 2D Handheld

- 942550016 SKORPIO X4 E00ANM4HS0HN0W7
 - Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 28-Key Numeric, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, EU.
- 942550017 SKORPIO X4 E00ANM4HS0HS0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 38-Key Functional, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, EU.

942550018 SKORPIO X4 E00ANM4HS0HF0W7

Skorpio X4 Handheld, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 50-Key Full Alpha Numeric, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, EU.

WEC7 - Wi-Fi 1D Pistol Grip

942600013 SKORPIO X4 E00ANM4TN0GN0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 28-Key Numeric, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, EU.

942600014 SKORPIO X4 E00ANM4TN0GS0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 38-Key Functional, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, EU.

942600015 SKORPIO X4 E00ANM4TN0GF0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 50-Key Full Alpha Numeric, Green Laser-like 1D Imager w Green Spot, Windows Embedded Compact 7, EU.

WEC7 - Wi-Fi 2D Pistol Grip

942600016 SKORPIO X4 E00ANM4HS0GN0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 28-Key Numeric, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, EU.

942600017 SKORPIO X4 E00ANM4HS0GS0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 38-Key Functional, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, EU.

942600018 SKORPIO X4 E00ANM4HS0GF0W7

Skorpio X4 Pistol-grip, 802.11 a/b/g/n MIMO CCX v4, Bluetooth v4, 1GB RAM/8GB Flash, 50-Key Full Alpha Numeric, White Illumination 2D Imager w Green Spot, Windows Embedded Compact 7, EU.

Out of the Box

The Skorpio X4 package contains:

- Skorpio X4 mobile computer
- Rechargeable battery pack
- Terminal emulation overlay
- Belt clip (handheld models only)
- Belt clip pivot (handheld models only)
- Hand-strap
- Lanyard (for pistol grip models only)
- Quick Start Guide
- Safety & Regulatory Addendum
- Wavelink Avalanche Insert (radio models only)
- Wavelink Terminal Emulation insert (pistol grip models only)
- End User License Agreement (EULA) Sheet

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



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.

General View

Front View



Back View



Top View



Bottom View



Accessories

Docks/Chargers

94A150062	Single Slot Desk Mount Dock with Spare Battery Charging Slot. High- Retention USB-R Type B (client only) and an RS-232 port. Includes Power Supply with Regional Plugs and USB Cable.
94A150067	Single Slot Desk Mount Dock with Spare Battery Charging Slot. High- Retention USB-R Type B (client only) and an RS-232 port (Requires Power Supply 94ACC1381 and Line Cord).
94A150032	Multi Charge Only Dock, recharges 4 terminals and 4 spare batteries (Requires Power Supply 94ACC1385).
94A150055	Multi Ethernet Dock, recharges 4 terminals and 4 spare batteries (Requires Power Supply 94ACC1385).
94A150034	Multi Battery Charger, recharges 4 spare batteries. (Requires Power Supply 94ACC1385).

Power Supplies/Cords

95ACC1113	Power Cord, 120V AC, IEC/US.
95ACC1213	Power Cord, 240V AC, UK.
95A051041	Power Cord, AC, IEC/EUR.
95ACC1215	Power Cord, IEC/Australian.
95ACC1212	Power Cord, IEC/Japan.
95ACC1284	Power Cord, IEC C13,Black Argentina, ROHS.
94ACC1385	Power supply for Multi Battery Charger, 4-Slot Dock. Power line cord has to be ordered separately.

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94ACC1380	Power supply for Skorpio X3/X4, for direct charge.
94ACC1381	Power supply for single slot dock, regional plugs included.
Batteries	
94ACC0046	Battery, 5200 mAh High Capacity, Skorpio X3/X4 (1 included with main device for pistol grip models).
94ACC0048	Battery, 3000 mAh Standard Capacity, Skorpio X3/X4 (1 included with main device for handheld models).
Cables	
94A051020	Cable for dock-PC (RS232) communication.
94A051968	Cable from Micro USB (dock) to USB. Device works as client. 2m straight cable.
94A051969	Cable from Micro USB (dock) to female USB. Device works as host. 1m straight.
94A051970	Cable from device (Handylink) to USB. Device works as client. Connects to PC, 2m straight cable.
94A051971	Cable from device (Handylink) to female USB. Device works as host. Connects to printers or most other peripherals. 15cm straight cable.
94A051972	Cable from device (Handylink) to female DB9 RS232. Null Modem Cable. Connects to PC. 2m straight cable.
94A051973	Cable from device (Handylink) to male DB9 RS232. Straight through cable, Power on Pin 9 (5V @ 500mA). Connects to printers, scanners, or most other peripherals. 15cm straight cable.
94A051975	Car Adapter for PMD (to supply power to PMD from the cigarette lighter). 2m straight cable.

94A051976	Adapter, from PMD Car Adapter to device (to
	supply power from the cigarette lighter to device,
	both 94A051975 and 94A051976 are required).
	15cm straight cable.

General Accessories

94ACC0079 Dock.	Module, Ethernet Communication for Single Slot
94ACC1372 Dock.	Module, Modem Communication for Single Slot
94ACC0043	Handle with Mounting Screws, Skorpio X3/X4.
94ACC0049	Hand-strap, Skorpio X3/X4
94ACC0044	Stylus and Tether Pack for Skorpio X3/X4, 5 Pack (one is included with all models of Skorpio X4).
94ACC0045	Quick Release Belt Clip for Skorpio X3/X4, 10 Pack (it includes the bolt and the screw to be fixed to the device, one is included with all the handheld models of Skorpio X4).
94ACC0081	Lanyard to tether the Skorpio X3/X4 to the wrist (it fits both Skorpio X3/X4 and Falcon X3+, one is included with all the pistol grip models of Skorpio X3/X4 and Falcon X3+).
Holsters/Cases	
94ACC0050	Belt Holster for Skorpio X3/X4 (it fits both handheld and pistol grip configurations, belt clip included, belt not included).
94ACC0052	Rubber Boot, Skorpio X3/X4.
94ACC0051	Softcase for Skorpio X3/X4 (it fits both handheld and pistol grip configurations, belt clip and shoulder strap not included).

Introduction

94ACC0151 94ACC0153	Snap-on Adapter for Skorpio X3/X4. Softcase for Voice for Skorpio X3/X4 (it fits only handheld configurations, belt clip included).
94ACC0076	Heavy duty belt for use with Skorpio X3/X4 belt holster (2.7m in length, adjustable).
94ACC1240	Shoulder strap (5 pcs).
94A150041	Vehicle Holder for Skorpio X3/X4 (it includes two screws and relevant washers for RAM Mount, does not include the RAM Mount itself).
94ACC0075	RAM Mount for Vehicle Holder (it fits both the vehicle holders for Skorpio X3/X4 and Lynx).



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

Battery

Install the Battery

To install the battery pack, insert the battery's alignment lugs into the recesses, then press firmly until the battery latch clicks twice:



Charge the Battery

The rechargeable battery pack is less than half of full charge when delivered. Charge the battery with the USB cable or with the single dock, before using the Skorpio X4 terminal.

During the charging process the charging LED positioned at the top left side of the display glows red constantly. Once the charging process has been completed, the charging LED glows green constantly. The charging LED flashes red when a charging error is detected.

Charge with USB

You can use a standard micro USB to USB cable in conjunction with a power supply adapter to charge the Skorpio X4 from a power outlet.



The Micro-USB port can also be used to charge the Skorpio X4 battery pack from any self-powered USB hub or USB port on a computer.



Don't insert the wall charger into the micro USB port when the Skorpio X4 is inserted into the dock.

Charge with the Single Slot Dock



You can also charge an additional battery pack by inserting it into the rear slot of the dock.



The Skorpio X4 may get warm during charging; this is normal and does not mean a malfunction.



By default, the battery pack is disconnected at the factory to avoid damage due to excessive draining.



Avoid storing batteries for long periods in a state of full charge or very low charge.

We recommend charging the battery pack every two to three months to keep its charge at a moderate level to maximize battery life.

Annual replacement of rechargeable battery pack avoids possible risks or abnormalities and ensures maximum performance.



The battery pack autonomy varies according to many factors, such as the frequency of barcode scanning, RF usage, battery life, storage, environmental conditions, etc.

Close to the limits of the working temperature, some battery performance degradation may occur.



The Skorpio X4 should be charged at an ambient temperature between 0 - 35 $^{\circ}$ C (32 to 95 $^{\circ}$ F) to achieve the maximum charging rate.

Never charge the device battery in a closed space where excessive heat can build up.

As a safety precaution, the battery may stop charging to avoid overheating.



To maximize battery life, turn off radios when they are not needed.

Replace the Battery

To replace the battery pack, follow the steps below:

- 1. Turn off the Skorpio X4 (press the power key and wait for device power off).
- 2. Press the latch release button and pull the battery latch down:



3. Remove the battery pack.



4. Insert the new battery pack into the slot (see 'Install the Battery" on page -17).



Do not incinerate, disassemble, short terminals, or expose to high temperature. Risk of fire and explosion. Use specified charger only. Risk of explosion if the battery is replaced by an incorrect type. Dispose of batteries as required by local authorities.



Use only Datalogic approved batteries and accessories for battery charging.

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

Il y a risque d'explosion si la batterie est remplacée par une batterie de type incorrect.

Mettre au rebut les batteris usagées confor mément aux instructions.



Even if the storage temperature range is wider, it is recommended to store the terminal and the batteries at environmental temperature, in order to achieve the longest battery life.



Installing, charging and/or any other action should be done by authorized personnel and following this manual.

The battery pack may get hot, explode, ignite, and/or cause serious injury if exposed to abusive conditions.

If the battery pack is replaced with an improper type, there is risk of explosion.

Do not place the battery pack in or near a fire or other heat source; do not place the battery pack in direct sunlight, or use or store the battery pack inside unventilated areas in hot weather; do not place the battery pack in microwave ovens, in clothes dryers, in high pressure containers, on induction cook surfaces or similar devices. Doing so may cause the battery pack to generate heat, explode or ignite. Using the battery pack in this manner may also result in a loss of performance and a shortened life expectancy.

To power the cradle, use only a Datalogic approved power supply. The use of an alternative power supply will void the product warranty, may cause product damage and may cause heat, an explosion, or fire.

The area in which the units are charged should be clear of debris and combustible materials or chemicals.

Do not use the battery pack of this terminal to power devices other than this device.

Immediately discontinue use of the battery pack if, while using, charging or storing the battery pack, the battery pack emits an unusual smell, feels hot, changes colour or shape, or appears abnormal in any other way.



Do not short-circuit the battery pack contacts connecting the positive terminal and negative terminal. This might happen, for example, when you carry a spare battery pack in your pocket or purse; accidental shortcircuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the contacts of the battery pack (these look like metal strips on the battery pack). Short-circuiting the terminals may damage the battery pack or the connecting object.

Do not apply voltages to the battery pack contacts.

Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts, pressures, or shocks.

Do not disassemble or modify (i.e. bend, crush or deform) the battery pack. The battery pack contains safety and protection devices, which, if damaged, may cause the battery pack to generate heat, explode or ignite.

In case of leakage of liquid from the battery, avoid contact with liquid the skin or eyes. If the contact occurs, immediately wash the affected area with water and consult a doctor.

Do not solder directly onto the battery pack.

Do not expose the battery pack to liquids.

Avoid any knocks or excessive vibrations. If the device or the battery is dropped, especially on a hard surface, you should take it to the nearest Authorised Repair Centre for inspection before continuing to use it.



If your device stops working for any reason, do not use its battery on other electronic devices without a prior check and approval by an Authorised Repair Centre.

Do not replace the battery pack when the device is turned on.

Do not remove or damage the battery pack's label.

Do not use the battery pack if it is damaged in any part.

Battery pack usage by children should be supervised.

Collect and recycle waste batteries separately from the device in compliance with European Directive 2006/66/EC, 2011/65, 2002/96/EC and subsequent modifications, with US and China regulatory laws and regulations about the environment.



SD Card

Install the MicroSD Card

Skorpio X4 supports microSD memory cards. To access the microSD card slot and insert the card follow the steps below:

- 1. Turn off the Skorpio X4.
- Remove the battery pack (see 'Replace the Battery" on page -21, steps 1 to 3).
- 3. Shift the cardholder upwards and then pull it up:





4. Insert the microSD card with the written part upward:



5. Lock the card into place by pushing the cardholder down and then shifting it downwards:





 Insert the battery pack into the slot (see 'Install the Battery" on page -17).

Remove the MicroSD Card

To remove the microSD card, follow the steps above to access the microSD slot, and remove it from its slot.



Follow proper ESD precautions to avoid damaging the microprocessors in the Skorpio X4 or the microSD card itself. Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.

Do not force the card. If you feel resistance, remove the card, check the orientation, and reinsert it.

Do not use the microSD card slot for any other accessories.

It is highly recommended that users latch the card cage's bale even when the card is not present.

Getting Started

Power On

The Skorpio X4 turns on when the battery pack or the external supply is inserted and the **ON/OFF** Power button is pressed.

As soon as the mobile computer is on, the Windows Embedded Compact 7 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 not used for more than a programmable timeout, which can be defined in the **Power** applet of the Control Panel. In this mode it can be awakened by the **ON/OFF** key.



The mobile computer can also be awakened or suspended programmatically.

Desktop Window

As soon as the mobile computer is on, the Windows Embedded Compact 7 desktop appears on the screen. Wait a few seconds before starting any activity so that the mobile computer completes its startup procedure.



Windows Embedded Compact 7 Desktop

Taskbar



lcons	Descriptions
*	The Start button opens the Start Menu.
<u>م</u>	ActiveSync connection icon is displayed when connected to ActiveSync or Windows Mobile Device Center either by USB, RS232, or Bluetooth®. Double-tap it to open a status dialog box that will let you disconnect the ActiveSync session without physically disconnecting the device from the PC. It is the only way to disconnect a Bluetooth® ActiveSync connection.
97 🕄 📋	Battery icons display the system battery status.
8	Bluetooth® Manager icon displays whether Bluetooth® is enabled, paired, or turned off. Double-tap this icon to open the Bluetooth® Manager control panel applet.
×	Network connectoid icon displays whether you are connected or not to Ethernet, Wi-Fi, or Bluetooth® Personal Area Network.

Using the Stylus Pen

The stylus selects items and enters information. It functions as a mouse.

Double Tap	Double tap the screen with the stylus to open items and select options.
Drag	Hold the stylus on the screen and drag across the screen to select text and images. Drag in a list to select multiple items.
Tap-and-hold	Tap and hold the stylus on an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.



Use only original Datalogic styluses supplied with the product itself.

In harsh applications, use of screen protectors should be taken into consideration, in order to extend the touch screen operating life.

To prevent damage to the screen, do not use sharp devices or any device other than the Datalogic provided stylus.

CAUTION Do not apply too much pressure when touching the screen.

For applications where an intensive use of the touch screen is foreseen, please consider that touch screen components are subject to progressive wear.

WEC7 Touch Screen Calibration

At the very first Skorpio X4 startup, after any cold boot (if the user skipped stylus calibration earlier) or following a clean boot, a Welcome Wizard with Stylus Calibration comes up.

Also, you might need to recalibrate the touch screen (i.e. when you attempt to select an item with the stylus, another item is erroneously selected).

To recalibrate the touch screen, following the steps below:

 Tap Start > Settings >Control Panel. Double tap the Stylus icon to open the Stylus Properties window:





Tap Calibration to open the Calibration tab. Tap Recalibrate:

Stylus Properties 🛛 ? OK 🗙
Double-Tap Calibration
If your device isn't responding properly to your taps, you may need to recalibrate your screen.
To start the recalibration process, tap Recalibrate.
Recalibrate



- 2. Carefully press and briefly hold the stylus on the center of the target. Repeat as the target moves around the screen.
- 3. By completing the calibration procedure you implicitly accept the new calibration settings.
- 4. The new calibration settings are persistently saved in the Registry.

Keyboards

The Skorpio X4 comes with three different keyboards: a full-alphanumeric keyboard, having 50 keys, an alphanumeric keyboard, having 38 keys and a numeric keyboard, having 28 keys. A 28 keys functional keypad is also available for special configurations.

Full-alphanumeric Keyboard (50 Keys)



Main Keys Functions

Кеу	Function
SCAN	The SCAN key starts data capture. If enabled, it also wakes up the mobile computer from low-power (see DL Buttons on page 83). For pistol grip models only, the trigger performs the same function as the SCAN key.
8008	Arrow keys let you move forwards, backwards, upwards or downwards within text fields, scroll through a Menu list or browse among folder files.
-	Yellow modifier (toggle key): when pressed before a standard key, it enables the character or function printed in yellow above the key.
	Blue modifier (one shot key): when pressed before a standard key, it enables the character or function printed in blue above the key.
C	The ON/OFF Power button powers the Skorpio X4 ON or OFF. It is placed on the upper left side of the terminal.

Special Function Icons

lcon

Function



After a Blue modifier key press, the Start menu key opens the Start menu.



After a Blue modifier key press, the Backlight key turns the backlight on and off.



After a Blue modifier key press, the blue arrows allow moving forwards or backwards within the Internet Explorer browser pages.

Alphanumeric Keyboard (38 Keys)



Main Keys Functions

Кеу	Function					
SCAN	The SCAN key starts data capture. If enabled, it also wake up the mobile computer from low-power (see DL Butto on page 83). For pistol grip models only, the trigger performs the same function as the SCAN key.					
	Arrow keys let you move forwards, backwards, upwards or downwards within text fields, scroll through a Menu list or browse among folder files.					
	Yellow modifier (toggle key): when pressed before a standard key, it enables the character or function printed in yellow above the key.					
	Blue modifier (one shot key): when pressed before a standard key, it enables the character or function printed in blue above the key.					
C	The ON/OFF Power button powers the Skorpio X4 ON or OFF. It is placed on the upper left side of the terminal.					

Special Function Icons

lcon

Function

file manager.

C

Ň

After a Blue modifier key press, the Start menu key opens the Start menu. After a Blue modifier key press, the File Manager key opens the

After backli

After a Blue modifier key press, the Backlight key turns the backlight on and off.

 Θ Θ

After a Blue modifier key press, the blue arrows allow moving forwards or backwards within the Internet Explorer browser pages.

Numeric Keyboard (28 Keys)



Main Keys Functions

Кеу	Function
SCAN	The SCAN key starts data capture. If enabled, it also wakes up the mobile computer from low-power (see DL Buttons on page 83). For pistol grip models only, the trigger performs the same function as the SCAN key.
	Arrow keys let you move forwards, backwards, upwards or downwards within text fields, scroll through a Menu list or browse among folder files.
	Yellow modifier (toggle key): when pressed before a standard key, it enables the character or function printed in yellow above the key.
	Blue modifier (one shot key): when pressed before a standard key, it enables the character or function printed in blue above the key.
C	The ON/OFF Power button powers the Skorpio X4 ON or OFF. It is placed on the upper left side of the terminal.
-+	CTRL
-+ 0	ALT

Special Function Icons

Icon Function



After a Blue modifier key press, the Backlight key turns the backlight on and off.

Multitap Function

In the numeric keypad the number keys (key 0 excluded) and the ESC key share the following behavior scheme:



- A. Function of the key when directly pressed.
- B. Modified by the Yellow key, repeated presses cycle through the letters shown on the keyboard overlay for each key. The letter is entered if you wait for a short timeout.

Functional Keyboard^{*} (28 Keys)



* Only available on WEC7 special configurations.

Main Keys Functions

Кеу	Function
SCAN	The SCAN key starts data capture. If enabled, it also wakes up the mobile computer from low-power (see DL Buttons on page 83). For pistol grip models only, the trigger performs the same function as the SCAN key.
eq 81 71 87	After a Yellow modifier key press, the F6-F9 keys behave like the arrow keys let you move forwards, backwards, upwards or downwards within text fields, scroll through a Menu list or browse among folder files.
	Yellow modifier (toggle key): when pressed before a standard key, it enables the character or function printed in yellow above the key.
	Blue modifier (one shot key): when pressed before a standard key, it enables the character or function printed in blue above the key.
C	The ON/OFF Power button powers the Skorpio X4 ON or OFF. It is placed on the upper left side of the terminal.

Special Function Icons

lcon

Function



After a Blue modifier key press, the Start menu key opens the Start menu.



After a Yellow modifier key press, the File Manager key opens the file manager.



After a Blue modifier key press, the Backlight key turns the backlight on and off.

Multitap Function

In the functional keypad the number keys (key 0 excluded) and the Period key share the following behavior scheme:



- A. Function of the key when directly pressed.
- B. Modified by the Yellow key, repeated presses cycle through the letters shown on the keyboard overlay for each key. The letter is entered if you wait for a short timeout.

Insert the Terminal Emulation Overlay

To insert the terminal emulation overlay, proceed as follows:

1. Remove the overlay using a torx^{*} screwdriver:





2. Insert the terminal emulation overlay (first the upper side). Fix the overlay with the screwdriver:





* Always use a torx screwdriver to prevent screw damage.

Resetting the Terminal

There are several reset methods for the Skorpio X4.

A warm boot terminates an unresponsive application and clears the working RAM, but preserves the file system. The Registry is restored from persistent memory if available or returned to factory default.

A cold boot forces all applications to close, completely reinitializing the system. It clears the working RAM, but the file system is preserved. The Registry is restored from persistent memory.

A clean boot restores the Skorpio X4 to a clean configuration: both the Registry and the file system returns to a clean status that conforms to factory default.

Warm Boot

To perform a warm boot, press and hold the following keys simultaneously:



Cold Boot

To perform a cold boot, do the following steps:

- 1. Turn off the Skorpio X4 by pressing the ON/OFF Power button.
- 2. Pull the battery latch down and remove the battery pack.
- 3. Simultaneously press the SCAN key and the Reset button in the battery compartment.
- 4. Insert the battery pack.
- 5. Turn on the Skorpio X4 by pressing the ON/OFF Power button.

Clean Boot

To perform a clean boot, do the following steps:

- 1. Perform a Cold Boot (see Cold Boot).
- Press and hold down the 'Esc' + '0' keys simultaneously, promptly after resetting:



A dialog box will appear asking for confirmation. Press the Enter Key.

	Warm Boot	Cold Boot	Clean Boot		
Registry	Restored from flash	Restored from flash	Clean configuration (no user config)		
File System	Preserved	Preserved	Clean Installation (no user files)		

LED Indicators

The LEDs illuminate to indicate various functions or errors on the reader. The following tables list these indications.

LED	Status	Description			
Charging LED	Red Constant	Light is solid red while charging.			
	Green Costant	Light is solid green once the charging process has completed (full charge).			
(left side)	Red Blink	Blinking red indicates a charge fault.			
	Amber Blink	Light is blinking amber when the device raises a notification to the user.			
	Off	Keyboard in primary.			
Keyboard LED	Yellow Constant	Yellow alternate key mode.			
(center)	Blue Constant	Blue alternate key mode.			
	Pink	CapsLock enabled.			
Good Read LED* (right side)	Red	Light is red from the time the user presses the scan key (or trigger) until the barcode is decoded (1D models), until the scanner times out (2D imager models).			
	Green	Light changes to green when a good decode is completed.			

* The Good Read LED has also a "Suspend LED" feature. The decode LED will glow red when the device begins to suspend, and will turn off when the suspend completes successfully.

Settings

Control Panel

From the Start menu, tap **Settings** > **Control Panel.** Below is an expanded view of the Control Panel showing all of the applets.



Data Capture Configuration

Before you start reading barcodes, use the **Decoding Properties** window to view and configure all settings for the scanner.

From the control panel main window, double tap the **Decoding** icon:



Decoding Pro	operties		?	OK	×
Configure	Settings	¢	⇒		
<u>G</u> eneral	•				
1D Bar Code	∍ ▶				
2D Bar <u>C</u> ode	∍ → 			_	
1 Notificatio	<u> </u>	!			
Interval:	ļ.			•	
Audio				_	
Volume:		-		U.	
Beep tone	·	Ļ	•••	1 	

Tap **Configure** and select **General**, **1D barcode** or **2D barcode**, then use the menu or tap the left and right arrow keys to navigate the different pages of the **Decoding Properties** window. The menu options will change to reflect the items most recently selected.

General Decoding Properties

Tap **Configure > General** and select the desired configuration from the options shown in the figure below:

Decoding Properties			?	OK	×	
Configure	Set	tings	4	4		
<u>G</u> eneral	۲	Notif	icati	ion		
1D Bar Code	∍ ►	Good	d <u>R</u> e	ad		
2D Bar <u>C</u> od	∍ ▶	Eorm	hatti	ng		
<u>1</u> Notificatio	n	<u>G</u> ene Decc				
Interval:		Imaç <u>M</u> ulti Keyb	ger (Sca	Diptic In	ons	
Volume:	_				П	Т
Beep tone	:		Ļ	•••	<u>-</u>	

Notification

Use it to set the number, the duration and the interval of notifications (LED, green spot, beep or vibration) the scanner emits on a good read.

You can also set the volume and tone of the beeps.

Decoding Properties 🛛 📍 OK 🗙					
Configure	Settings	¢	4		
Notificatio	<u>n</u>				
Number:]			_	
Duration:	- Ú				
Interval:	-j-	_		_	
r Audio ——	1 Y	1	1	1	_
Volume:					
Beep tone	»[Ŷ		- -	

Good Read

Use it to enable/disable good read notifications (LED, Green Spot, LED). Drag the **Timeout** slider to set the maximum amount of time the scanner attempt to decode after the scan key (or the trigger) is pressed:



Formatting

Allows to format the barcode text by enabling and configuring the use of prefix, suffix and data separator.

Scroll the **Add special** drop-down list to select a special character to be added in the current cursor position.



General Options

Select the **Label programming enable** check box to enable the scanner to read specific barcodes.

Scroll the **Symbology ID** drop-down list to select and add a code identifier prefix or suffix to the barcode string.

AIM ID (Association for Automatic Identification and Mobility) is an international barcode identifier. When **AIM IDs Before** is enabled, the AIM ID is inserted at the beginning of the decoded barcode.

DL ID is a Datalogic specific character identifier.

User ID is a user specific character identifier you can set in the related symbology settings menu.

Group Separator replacement is a non printable data separator

character (ASCII code 1D hex). Scroll the **Group Separator replacement** drop-down list to select a string that will be used as GS data separator substituting the standard GS character.

Select **Remove non-printable characters** to remove non-printable characters from a unicode string.

Use the **1D Inverse** drop-down list to enable the scanner to read inverse 1D barcodes.



Decoding Options

Use it to configure the User ID for symbologies, Redundancy and Aggressive Decoding (if supported by the decoding module). Select a symbology to view or change the available properties settings.

Decoding Pr	operties		?	OK	×
Configure	Settings	¢	Ŷ		
Decoding	Options				
Symbology:					
Aztec					
Codabar	I				1
Code 128				_	
Code 32	Y				
Code 39	C			-	
Code 93	L				1
			_		
User ID:	i		•		
Redundancy			-		
🗌 Aggressi	ve decoding				

Imager Options

It allows to customize the 2D imager behavior. It is only available on devices equipped with 2D decoding engines.



Enable illumination

If selected, it causes the scanner to turn on the illumination to aid decoding.

Read from display

It improves capability to read barcodes from LCD screen (e.g. displayed on smartphone display).

Enable picklist

If selected, it allows you to pick and decode a barcode from multiple barcodes printed close together, when the scan illumination intersects more than one barcode. Only the targeted barcode will be returned.

Target mode

If enabled, when the scan button is pressed, the scanner will project an aiming pattern to assist in centering over the barcode before scanning. Use the drop-down list to select the desired targeting behavior:



No Delay

Target mode is disabled.

Target Timeout

Scanning takes place after a programmable time upon pressing the scan button. Drag the **Timeout** slider to set the maximum amount of time the scanner attempt to decode after target timeout.

Release Scan

Scanning takes place after the scan button is released. Drag the **Timeout** slider to set the scanning timeout after releasing the scan button.

Enable target after aiming

It enables aiming before scanning.

Multi Scan

If enabled, the device goes on scanning until the number of **Labels** for good read is reached.

Select **Enable indicators for each label** to get an intermediate notification for each label decoded.

Decoding Pr	operties		?	0K	×
Configure	Settings	Ŷ	Ŷ		
<u>Multi Scar</u>	ב				
Labels per good read: 3				• •	
🗌 Enable in	dicators for	eacl	n lab	el	

Keyboard Wedge

Use it to enable or disable the keyboard wedge for barcode scanner:

Decoding Pr	operties		?	OK	×
Configure	Settings	Ŷ	Ŷ		
Keyboard	Wedge				
Data types					_
🗹 Bar co	de				
Magne	tic stripe				
					-
Use clipb	oard				

Symbology Settings

Each barcode symbology can be customized with additional settings that may affect that specific barcode decoding.

Tap **Configure** and use the **1D barcode** / **2D barcode** drop-down menus to configure symbology decoding options:

	Decoding P	roperties	?	ОК	×			
	Configure	Settings	1					
	General	· · [
	1D Bar Co							
	2D Bar <u>C</u> o				-			
	<u>1</u> Decodin	g Options		t i i	-			
	2 Keyboar	d Wedge			-			
	<u>3</u> Multi Sca							
	<u>4</u> Imager (Options		-	-			
	User ID:		-					
	Redundanc	y:	~					
	Aggress	ive decoding						
Decoding Pro	<u> </u>	1	Dec	odin	g Pr	operties		? OK ×
Configure	⊆odabar		Co	nfig	ure	Setting	js 😓	→ □□
General	Code 128			jener			•	
1D Bar Cod	Code 3 <u>2</u>			D Bar			•	
2D Bar <u>C</u> od	Code <u>3</u> 9 Code 93		2	D Bar	r <u>C</u> od		c Code	
1 Decoding	EAN-13		1	Deco	oding	10 =	posite	
2 Keyboard	EAN-8		2	Keył	ooard	нм —	aMatrix Code	
3 Multi Scar	GS1 DataBar-14		3	Mult	i Sca	n PDF		
4 Imager O	GS1 DataBar Expanded		4	Imaç	ger C)nti 🗌	DPDF41	7
	GS1 DataBar Limited						al Code	
User ID:	Interleaved 2/5		Us	er ID	0			s (<u>W</u> orld)
Redundancy	Matrix 2/5		Re	dund	dancy		Iode	
Aggressiv	MSI] Agg	ressi	ve decod	ing	
	Standard 2/5							
	Tri_Ontic	1	-	1			-	

Refer to the sample symbology control panels for examples of the types of fields and options you can modify. The sample below shows the settings of a Code 128 barcode symbology:



Tap the left and right arrow keys to navigate the different pages of the barcode symbology pages.

Decoding Settings

Tap **Settings** to change symbologies settings or to restore previous configurations and/or other available default settings.



The settings are saved when you tap **Yes**. Any change you make is temporary and will be lost when the system restarts. To save these settings to a persistent storage, you need to save the **Registry** using the **Persistent Registry** applet in the **Control Panel**.

WCU (Wireless Configuration Utility)

Wireless Configuration Utility (WCU) is a user-mode application that provides an interface for configuring and operating an installed wireless network interface card (wireless adapter).

Tap Start > Programs > WLink > WCU to open the WCU screen:





Create a New Profile

Select Add from the menu bar and enter information for the SSID, Security Type and Encryption Type:





Security Type: No Authentication (Open)

Open authentication allows any device to authenticate and then attempt to communicate with the access point. Using open authentication, any wireless device can authenticate with the access point, but the device can communicate only if its Wired Equivalent Privacy (WEP) keys match the access point's WEP keys.



Security Type: WPA2-Personal

In case of pre-shared key (PSK) authentication, the access point sends an unencrypted challenge text string to any device that is attempting to communicate with the access point. The device that is requesting authentication encrypts the challenge text and sends it back to the access point. If the challenge text is encrypted correctly, the access point allows the requesting device to authenticate.

To create a profile with PSK authentication, follow the steps below:

- 1. Select the Security Type as WPA2-Personal
- 2. Select the Encryption Type
- 3. Enter the password in the Security Key field.



Security Type: WPA2-Enterprise

This authentication type provides the highest level of security for your wireless network. By using the Extensible Authentication Protocol (EAP) to interact with an EAP-compatible RADIUS server, the access point helps a wireless client device and the RADIUS server to perform mutual authentication and derive a dynamic unicast WEP key. The RADIUS server sends the WEP key to the access point, which uses the key for all unicast data signals that the server sends to or receives from the client. The access point also encrypts its broadcast WEP key (which is entered in the access point's WEP key slot 1) with the client's unicast key and sends it to the client.

To create a profile with EAP authentication, follow the steps below:

- 1. Select the Security Type as WPA2-Enterprise
- 2. Select the Encryption Type
- Tap settings. The PEAP Properties screen appears, where you can configure connection properties, source of user credentials and authentication properties (inner method) to be used:





4. Tap the **User Credentials** tab to enter the EAP methods user credentials:



5. Tap the Authentication tab to select the EAP inner method:

PEAP Properties	;	? 0K ×
User Credentials	Authentical	tion 🛛 📕 🕨
Select authentic	ation method:	
Any Method	-	•
Any Method EAP-GTC EAP-MSCHAPv2		

Tap OK to complete:



The new profile now appears in the WCU profile list:



Each EAP profile can be either "Pairwise Master Key Caching (PMK)" or Opportunistic Key Caching (OKC). By default, OKC radio button is enabled for each of WLAN profile.

Edit a Profile

Select a profile in WCU profile list and tap ${\bf Edit}$ on the navigation menu bar:



WEC7 wireless network properties 🗙			
SSID : WEC7			
Enable CCX			
Security Type : WPA2-Enterprise			
Encryption Type : AES			
Protected EAP(PEAP) velocities			
Fast Roaming : OPMK Caching OKC			
OK Cancel			

Delete a Profile

Select a profile in WCU profile list and tap **Delete** on the navigation menu bar:



Connect to a Profile

Select a profile in WCU profile list and tap **Connect** on the navigation menu bar. Tap the **Status** tab to display the connection status:

Wireless Configuration Utility 🛛 🗙		
Main Status Roaming Logging 🔹 🕨		
Network(SSID)	Security WPA2	
	Roaming Lo	



Disconnect from a Profile

Select a connected profile in WCU profile list and tap **Disconnect** on the navigation menu bar. Tap the **Status** tab to display the connection status:

Wireless Configuration Utility 💦 🗙			
Main Status Roaming Logging 🗸 🕨			
Scan List	Network(SSID) Security WEC7 WPA2		
Add			
Edit			
Delete			
Connect			
Disconnect			

Wireless Configuration Utility			×	
Main	Status	Roaming	Logging	•
Info	6			
Clien	t Status	: Disconnec	ted	
Ip Ac	Idress	; 192.168.1		
SSID				
Netw	ork Type	: Infrastruc	ture	
AP B		; 90-F6-52-	3A-DF-E8	
Char	inel	: 11 (2462	MHz)	
Mode		; 802.11dua	al i	
Signa	al Strength	:-57 (dBm		
SNR		:		
		(40dBm)		

Browse Nearby Wireless Networks

The **Browse Nearby Wireless Networks** window shows the scan list entries of the WLAN driver. It is automatically refreshed periodically, without sending an explicit scan request to driver.

Tap **Scan List** in the Options menu. A window appears, that shows all the detected networks.

Wireless Configuration Utility 💦 🗙				
Main Status Roaming Logging 🕢 🕨				
Scan List	Network(SSID)	Security WPA2		
Add				
Edit				
Delete				
Connect				
Disconnect				

Scan List 🛛 🗙				
Select a network to connect to				
Disconnect Connect Details Refresh				
Name	Signal	Channel		
DL-GUEST	Good	1		
💼 Datalogic-WiFi	Weak	1		
🔓 Datalogic-Guest	Good	1		
DLADC-TEST	Weak	1		
	Good	1		
💼 R&D Mobile Lab	Good	6		
Device 2	Good	6		
TIM_MF90_7	None	6		
TICONDEROGA	None	6		
🔓 TPLink	Good	11		
💼 #Wi-Fi@959	Weak	11		

Connect to/Disconnect from a Network

- Select a network from the list. Depending on whether or not the adapter network is connected to that network, the **Connect** or **Disconnect** button on the menu bar will be enabled.
- 2. Tap **Connect** or **Disconnect**.
- WCU initiates the Create New Profile dialog box if the profile doesn't exist already.
- 4. Enter a profile name or leave the default name.
- 5. Select **Security Type** and **Encryption Type** settings for the new profile (see Create a New Profile on page 62).
- Tap OK to save the profile and connect the adapter to the network, or Cancel to return to the current view without saving the profile.

Refresh

Tap Refresh to manually refresh the scan list. Each click on this button triggers a scan request to driver.

Audio Settings

There are two applets that control volume: Audio and Volume & Sounds.

Audio

The **Audio Properties** window allows to set the volume for the speaker and the microphone.

From the control panel main window, double-tap the Audio icon:





Volume & Sounds

From the control panel main window, double-tap the Volume & Sounds icon:



The **Volume & Sounds** applet configures audio features of all speakers and headphones.

Volume & Sounds Prope ? OK 🗙	Volume & Sounds Prope ? OK 🔀
Valume Sounds	Volume Sounds
Soft Loud Enable sounds for: Events (warnings, system events) Applications Subtrications (alerne, reminders) K key dicks:	Event: Kindows Embledded Compact Cose Program Cose Prog
O Soft ● Loud ✓ Screen taps: O Soft ● Loud	Sound: Preview: (None) Scheme: Save As Windows Embedded C() Save As Delete
	Delete

Bluetooth® Manager Device Setup

To create a Bluetooth® pairing between your device and another device that has Bluetooth® capabilities, ensure that the two devices are turned on, discoverable, and within close range.



By default, Bluetooth® is turned off. If you turn it on, and then turn off your device, Bluetooth® also turns off. When you turn on your device again, Bluetooth® turns on automatically.

Enable Bluetooth®

To turn the Bluetooth® on:

1. Double-tap the **Bluetooth Manager** icon from the **Control Panel** window:



 Tap Settings. The Settings tab allows you to enable or disable the Bluetooth[®] radio and specify settings for Incoming Connections. Select Enable Bluetooth Radio.

Bluetooth Mar	nager		OK ×
Connections C	Discovery	Setting	s
🔽 Enable Bluet	ooth Radio	ļ	
[Incoming Conn	ection ——		
Encrypt 1	Incoming C	onnection	s
Authenti	cate		
PIN:			
Port: None	•		
Find Me	Apply	I	nfo

- If you're going to connect a serial device (i.e. a scanner) to the Skorpio X4, use the **Port** control to select a virtual COM port to use for the connection.
- Tap Find Me if you want to make the Skorpio X4 discoverable to other Bluetooth[®] devices for 60 seconds, allowing them to set up a connection. Tap OK on the Find Me pop-up window.

Bluetooth Manager 🛛 🛛 🗙
Connections Discovery Settings
Enable Bluetooth Radio
Incoming Connection
Find Me OK Discoverable
Port
Find Me Apply Info

- 5. Tap Apply.
- 6. Once the Bluetooth® radio is enabled, the terminal automatically starts searching for discoverable devices.

Connect to Other Bluetooth® Devices

1. From the Bluetooth Manager control panel, tap Connections:



 Search for available Bluetooth[®] devices by tapping the button for the type of device you want (Printer, Serial or AII) or tap Discovery > Discover to skip this step. The Skorpio X4 will search for Bluetooth[®] devices within range.



If you attempt to set up a connection when the Bluetooth® radio is disabled, you will receive a message reminding you that the radio is turned off, and asking if you want to turn it on. Tap Yes if you need to enable the Bluetooth® radio.

Settings

lcon	Service
	Dialup Networking
4	Printer
ŢŹ	Object Push (OPP) Object Exchange (OBEX)
0	ActiveSync
٢	Human Interface Device (HID) - Keyboard
(Serial
4	Personal Area Network (PAN)
.	Modem
3	Headset
	Handsfree

 Once searching is complete, Bluetooth[®] device profiles will be displayed in the **Discovery** tab. Flick the list and select a device to set up a connection and then tap **Connect**.

Bluetooth M	anage	er	OK ×
Connections	Disco	very	Settings
Discovered De	evices:		
Name		Addr	ess
Device 1		00:0	3:7A:29:C5:53
Device 2		00:2	6:FF:48:28:AA
Device 3			9:7F:41:0C:7C
Device 4		00:1	9:15:10:D5:94
Unknown		00:1	E:37:87:CC:AD
Discover	9	Stop	Connect

4. Select a service and configure any encryption, authentication, or virtual port options required by the service selected. Virtual Port allows you to specify the incoming port, which is used to communicate serially with an incoming device just as if it were a physical COM port. This option is available only if you have selected a Printer or Serial service.



5. To require Authentication, select the **Authenticate** check box, then tap **OK**.



 The Authentication Request dialog box will request that you enter a PIN. Use the Input Panel or the keyboard to type the PIN. Tap OK to complete. The dialog box will also appear when an authentication request is received from another device.

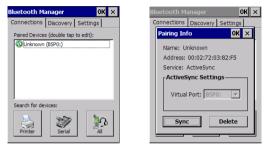
Authentication Request 🛛 🛛 🗙	×
Enter a PIN to authenticate the connection.	1
Name: Device 2	
Address: 00:03:7A:29:C5:53	
Enter PIN:	
Input Panel	
	4
Esc[1]2]3]4]5]6]7]8]9]0]-]=	T
Tab q w e r t y u i o p [ī
	Ť



You can also select Encrypt or Authenticate from the Settings tab of the Bluetooth Manager control panel.

Configure or Unpair Bluetooth® Devices

Once you have set up a pairing, you can view and edit the pairing settings by double-tapping the paired device from the **Connections** tab.



Use the **Virtual Port** drop-down menu to change the Virtual Port. Tap **Sync** to initiate a Sync (available only if the service is an ActiveSync connection). Tap **Delete** to remove the device pairing.

- 1. Tap Settings > Bluetooth.
- 2. Select a device from the **Paired Devices** list and tap the settings icon next to its name. The **Paired Bluetooth device** window displays on the screen:

Persistent Registry

The Registry stores information that are necessary to configure the system for applications and hardware devices. The Registry also contains information that the operating system continually references to during operation.

To persist the Registry settings between boots, follow the steps below:

- From the Control Panel main window, double-tap the Persistent Registry icon.
- 2. Tap Persist.
- 3. Tap OK to exit.





To change the Persistent Registry timing:

- 1. From the **Persistent Registry** window, select a time interval from the menu.
- 2. Tap **OK** to save and exit.

Persistent Re	egistry	Prope	rties	OK	×
Persistent Re	gistry				
Persist or clear registry settings now or persist settings automatically at a regular interval.					
Persi	Persist Clear				
Persist reg	istry set	tings:			_
Every	1 hour		-		
Warning: au registry at f degrade sys	15 minu 30 minu 1 hour	utes		g the n	9

To cancel the Persistent Registry timing:

- 1. From the **Persistent Registry** window, deselect the **Persist Registry settings** check box
- 2. Tap **OK** to save and exit.





Datalogic Applications

DL Buttons

You can use the **DL Buttons** tab to associate specific keys, such as **<F1>-<F10>**, with specific applications.

From the control panel main window, double tap the **DL Buttons** icon to open the **DL Buttons** tab.

Customize the program hardware buttons to launch your most used applications. Use the **Select a button** drop-down menu to select the button you want to assign a function to, and then select an application from the **Assign a function** drop-down menu.



Command	Description
Select a Button	This drop-down list shows the available function keys to define. Select the desired one from the list.
New	Tap to define a new button.

Command	Description
Delete	Tap to delete the selected Button. You can only delete the Buttons you have added. You cannot delete the following buttons: Alt + 6, Left Button, Pistol Trigger, Right Button, Scan .
Assign a function	This drop-down list shows the available functions.
Application	Displays the path to the selected application.
Browse	Tap to browse for application files. You can associate an executable program with the specified button.
Arguments	Type the command-line arguments that are needed for the specified application. This option is only available when Launch Application is selected from the Assign a function drop-down list.

Add a New Button

To define a new button, follow the steps below:

- 1. Tap New on the **DL Buttons** tab to open the **Add Key** text box.
- 2. Enter the desired key combination.

		ОК	×	ж	×
Add Key:					
F8	•	New		Dele	te
2. Assign a function:	_		_		_
Menu r Configuration	•		аке	up	_
Application:			_		
]
Arguments:					1

3. Tap **OK** to save the new button. Tap **X** to cancel.



Make sure you do not attempt to add a button that is already defined.



The keyboard wedge can activate assigned buttons using alphanumeric characters. Barcodes containing characters associated with assigned buttons will trigger the action or application assigned to that button.

Triggers

Triggers are special customizable buttons that are mapped by default by DL Buttons. Also, they can be set as wakeup buttons:

DL Buttons	ok ×
DL Buttons	
 Enable DLButtons 	
1. Select a button:	
Scan 🔻 New	Delete
2. Assign a function:	
Bar Code 🗨 🗸 Wake	eup
Configuration	
Application:	
Arguments:	
, i gementer	— I
1	

Triggers	Available Functions
Scan	barcode: activates the scanner.
Pistol Trigger	barcode. activates the scanner.

Application Switcher

The application switcher provides the same functionality as the standard Windows[®] "Alt + Tab" function. This allows the user to switch between the various open applications.

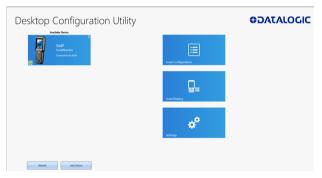
The application switcher is activated via an assigned shortcut key specified in the **DL Buttons** tab (see Persistent Registry on page 80). When the assigned button is pressed, the dialog box below is displayed:



Press the assigned button to cycle through the running applications when the dialog box is open. Press **Enter** to switch to the selected application or **Esc** to close the application switcher.

Desktop Configuration Utility (DXU)

Datalogic DXU is a unified device configuration utility and firmware update utility. DXU can connect directly to the Skorpio X4 that connects either directly to a PC via USB or remotely over a network, either via Ethernet or Wi-Fi. DXU reports information about currently connected devices.



DXU can configure a wide variety of device parameters, including the scanner and most decoding parameters, the touch screen and the keyboard, interfaces such as NFC, Wi-Fi, Bluetooth, USB, and Ethernet, device settings such as date, time, time zone, and power management, and security settings such as password access. DXU can also configure communication parameters between the application that runs on a PC and the client applications that run on the device.

DXU offers a method to print out barcodes that Skorpio X4 users can scan to quickly connect to DXU, called Scan2Deploy. DXU also offers the capability to create barcodes that can completely configure the device by scanning specific configuration barcodes alone, without connecting to DXU via USB or via a network. This feature may prove helpful for configuring devices that operate in environments that forbid the use of networked computers.

DXU offers remote control capabilities for remote troubleshooting, allowing a DXU administrator an opportunity to remotely operate the device to check settings, configure the device using its own user interface, and to see what a user sees.

How DXU Works

DXU is really two applications working together. The DXU desktop application runs on a Windows PC, providing convenient UI to configure the Skorpio X4. An application runs continuously on the device to extract current configuration settings and send them to the DXU desktop application, and to receive updated settings from the DXU desktop application and apply those configuration settings to the device.



DXU configurations are stored as configuration files on the PC, and are transmitted to and from the Skorpio X4 as XML web pages. XML is a standard data format that is widely used for a variety of applications on the internet. Some data is encrypted in the XML file to protect your sensitive data from prying eyes, but most data which is not sensitive is transmitted in plain text that can be easily viewed and analyzed.

DXU can connect directly to devices that are plugged into your PC via USB, including those inserted into a powered dock which is connected to your PC via USB. DXU can also connect to devices on your network.

Ask your network specialists for more information.

Installation

The DXU desktop application must be installed on a Windows PC. DXU Agent is already pre-installed on the Skorpio X4.

Supported Windows Versions

Windows Vista family

DXU is supported on both 32-bit and 64-bit versions of Windows Vista.

Windows 7 family

DXU is supported on both 32-bit and 64-bit versions of Windows 7.

Windows 8 family

DXU is supported on both 32-bit and 64-bit versions of Windows 8.

Windows 8.1 family

DXU is supported on both 32-bit and 64-bit versions of Windows 8.1.

Windows 10 family

DXU is supported on both 32-bit and 64-bit versions of Windows 10.

Unsupported Windows Versions

DXU may run on older, unsupported Windows versions, but Datalogic technical support will not support users who have problems if they install DXU on Windows versions no longer supported by Microsoft.

How to Install DXU

- 1. Copy the installer file to any convenient location on your PC.
- 2. Launch the installer.
- If User Access Control (UAC) is enabled on your computer, authorize the installer to run. (UAC is enabled by default on all supported Windows operating systems, but it can be disabled by default. If you do not see this prompt, UAC may have been disabled.)
- 4. Follow on-screen prompts to finish installing DXU.
- 5. Follow on-screen prompts to finish installing Datalogic Device Support drivers.

Controls

DXU Agent Controls

DXU settings on the device can be configured with the DXU control panel.



The following options are available in the DXU control panel:

1. **Desktop Port** number – needs to match setting on DXU Desktop. Requires warm boot for change to take effect.

- Pair Button to broad case UDP packets to automatic discovery of device by DXU Desktop.
- 3. **Enable service** when enabled DXU Agent on the device will function. Requires a warm boot for change to take effect.



Version

This page displays the DXU Agent version number.

DXU Application Controls

Available Device List and Configuration

The Available Devices list displays devices which are either currently connected, have been connected since launching DXU, or were manually connected at some time in the past. You can refresh the view to automatically show devices or hide devices which connect while you work on another device. In general, they should appear automatically as they connect.



By default, **No Devices Available** will display when no devices announce themselves to DXU either when they connect via USB or when they connect over a network. Simply connecting the Skorpio X4 to a network, even on the same subnet as the PC running DXU, will not automatically display as being available. The device must try to connect to DXU, which sends an announcement packet to DXU. This can be done by scanning Scan2Deploy barcode labels. However, connecting a device to the PC running DXU via USB will automatically display it in DXU. You will need to enter the DXU control panel on the device and press the Pair button in order to Automatic Discovery of Devices to properly function.

To configure a connected device, you simply click its button under Available Devices to load its configuration into DXU.

To return to the **DXU** main window, click the Back button (generally, a leftward pointing arrow in a circle).

Desktop Configuration Utility

Refresh

This button manually refreshes the display of currently connected devices. This can overcome problems with the automatic display of devices as they connect, and it can remove devices from the list that are not currently connected.

Desktop Configuration Utility	ODATALOGIC	Desktop Configuration Utility
SALP statistics commerce in RIS	Load Configuration	No Devices Available
	Scara Dogethy	$\Rightarrow_1^{i_1}$ Searching for Devices
Refresh	**	

Add Device

This button opens the **Add Device** dialog box which allows you to type the IP address of a device. This dialog box does not support DNS naming of devices. You can also use a custom TCP port if you have configured your device to use one in DXU Agent. For convenience, this field pre-populates with your PC's IP subnet. You need only to type in the last number of your device's IP address if it is in the same subnet as your PC.

Desktop Configuration Utility	ODATALOGIC	Add Device X
SXLP SouthBaster Consented on M2		Enter the IP address of the Device
		192.168.2
	Lange Contraction of the Contrac	Use Custom Port for Communication
Add Device	, *°	OK Cancel

This dialog box allows you to manually connect to devices running DXU Agent that are either inside your PC's subnet or outside it. The limitation is that devices on other subnets must be on a subnet that is routable from your PC's subnet. Consult with your network expert for more information.

Once connected, devices that respond to DXU's query over the network will display in the Available Devices list.

Load Configuration

Clicking the **Load Configuration** button opens a standard file dialog box that allows you to explore for and select a DXU configuration file. Loading a configuration allows you to edit a device's configuration when the device is not connected to DXU. This also allows you to save copies of this configuration to new locations or file names, so you can edit a copy of the configuration while leaving the original configuration unchanged.

Configuration Utility		OJAJAG
Available Dove		
	O Open	×
	e− → → ↑ 🖡 = Documents > Device Configs	✓ Ø Search Device Configs P
	Organize - New folder	E • □ 0
	BittgSever # * Name	Date modified Type
	di-stager / O Configuration2.dw	10/27/2017 9:38 A., DXU
	Device Configs Configuration.dxs	10/27/2017 826 A., D00J
	Ita Sovershots	
	ad	
	This PC	
	Documents V K	
	File name: Configuration.dw	 Configuration Files (*.dxa)
	rie same Compositionant	
		Open Cancel

To load a configuration:

- 1. Click the Load Configuration button.
- Explore to any folder where DXU configuration files are located, then select any configuration file you wish. You can double-click it to streamline opening it.
- 3. Click the **Open** button.

Note that the default location is your user directory on your PC, but DXU remembers the last directory you opened a DXU configuration file, and always starts in that directory the next time you wish to open another DXU configuration file.

Simplified Deploy

DXU desktop can be configured to enable the Datalogic out-of-box experience Simplified Deploy, using Scan2Deploy. With Simplified Deploy you can automatically connect your device to the network and provision it. The **Scan2Deploy** button on DXU desktop can be used to print barcodes that allow factory reset (Android) or clean boot (WEC7) devices to automatically connect to Wi-Fi, update their firmware, configure the device, and install applications.

In order for Simplified Deploy to function:

- The PC where DXU desktop is installed must be accessible from the Wi-Fi network.
- There must be a Manifest File, a text file located in the folder C:\Datalogic\DXUManifests.
- A Simplified Deploy barcode must be generated and printed using the **Scan2Deploy** button on DXU desktop.

Manifest File

Manifest Files are text .ini files indicating which firmware versions to update devices to ([update] tag), which DXU configuration file to apply ([config] tag), and which .apk (Android) and .cab (WEC7) file applications to install ([install] tag). It is recommended that [update] tags be in separate manifest files. You can specify more than one DXU configuration file to apply and more than one application to install.

Additionally, you can have more than one active manifest files on the PC where DXU desktop is installed, each with its' own Simplified Deploy Barcode to be used by Scan2Deploy utility on the device. In this way you can easily have devices provisioned for different tasks.

By default, firmware, configuration files, and applications are assumed to reside in the C:\Datalogic\DXUManifests folder. If they don't, the Manifest File entry must specify the path.

Datalogic Applications

Manifest File Format

```
[update]
<name of firmware file with full path on DXU Server PC>
[install]
<name of app1 to install file with full path on DXU
Server PC>
...
<name of app2 to install file with full path on DXU
Server PC>
...
<name of appN to install file with full path on DXU
Server PC>
```

[config]
<name of DXU configuration file file with full path on
DXU Server PC>

WEC7 Example

[update] firmware.img

```
[install] install.cab
C:\User\DLUser\Documents\Wec7\auto sync.cab
```

[config] defaultConfigWec7.dxu C:\User\DLUser\Documents\Wec7\my user.dxu

Scan2Deploy

Scan2Deploy allows the Skorpio X4 running DXU Agent to connect using DXU Agent's Scan2Deploy functionality by scanning a barcode. There are two different Scan2Deploy buttons in DXU, and they have different intentions and different scopes of functionality.



The **Scan2Deploy** button located on the main DXU page does not require an active connection to a device to create a Scan2Deploy barcode label. This button opens the Scan2Deploy dialog box streamlined to create Scan2Deploy labels that can automatically connect a device to a Wi-Fi access point on your PC's subnet and to automatically connect it to DXU, adding it to DXU's **Available Device** list.

Printing a Simplified Deploy Barcode

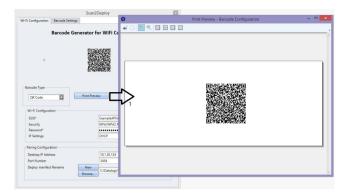
By embedding the IP address of the PC where DXU desktop is installed, the security information for accessing the Wi-Fi network and the name of the desired Manifest File, an encrypted barcode can be printed for use by Scan2Deploy on the device.

To print this barcode, from DXU desktop:

1. Launch Scan2Deploy.

Desktop Co	onfiguration	Utility	/	
	Scan2Deploy	×		
i-Fi Configuration Barcode Settings				
Barcode Gener	ator for WiFi Configuration			E
1			Load Con	
Bercode Type QR Code	int Preview Save	0	Scan2Der	Diay
SSID*	ExampleAPName			
Security	WPA/WPA2 PSK			
Password*				
IP Settings	DHCP			
Pairing Configuration				**
Desktop IP Address	10.1.20.124		Settings	
Port Number	3454			
	C:\Datalogic\DXUManifests\examp	Ne.ini		

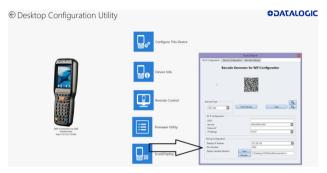
- 2. Enter the Wi-Fi Configuration information so that the device can connect to the network, including SSID and password.
- 3. Enter the Pairing Configuration, including the IP Address of the PC which has DXU desktop installed, and the name of the manifest file to be used. You can also create a New manifest file as a template for either DXU configuration file or a firmware update file. You could then edit the Manifest File .ini file in a text editor, like Word Pad, to add applications to install.
- Click the **Print Preview** button, enlarging the barcode view as needed. And then print by clicking the upper left hand printer button.



Printing Custom Configuration Barcodes

Outside of Simplified Deploy, the Scan2Deploy button located in the Datalogic Configuration Utility window can also automatically connect devices to Wi-Fi access points and to DXU. This window also has another tab which controls the ability to include configuration data in the printed barcodes. This version of Scan2Deploy can fully deploy a device configuration to devices which don't have network access to DXU on your PC. When the Include Unmodified Changes checkbox is selected, all configuration items will be included in the barcode set. This option results in several barcodes being generated as true Scan2Deploy labels. After scanning the first label in this set, DXU Agent's Scan2Deploy window on your device will display how many barcode labels must be scanned, and will display your progress in scanning them all. Once they are all scanned, DXU Agent will apply the configuration changes automatically, as if you had connected to DXU to transfer the changes.

While it is possible to generate a Simplified Deploy barcode using this window, it has the additional flexibility presented in the **Device Configuration** tab, which allows printing barcodes to configure the device without the need of the PC with DXU desktop being accessible from the Wi-Fi network.



Wi-Fi Configuration Tab

Barcode Type Menu

The "Barcode Type" menu allows you to choose which barcode symbology that Scan2Deploy labels will be printed in. Each barcode symbology has advantages and disadvantages which may benefit your organization.



QR Code, Aztec Code, and Data Matrix are 2D barcodes that offer high data density and larger capacity, but require 2D scanners to scan them. PDF417 is a stacked linear barcode that offers moderate data density and larger capacity than linear symbologies. Code 128 is a linear symbology that can be scanned by laser scanners, but its data capacity is low, which may result in a great many individual labels to be scanned in order to fully configure a device remotely.

Print Preview

The Wi-Fi Configuration tab offers a live preview of the barcode as you select the barcode type and enter data into the dialog box's fields.

Save Button

You may save Scan2Deploy labels as graphic files, should this prove convenient for including Scan2Deploy barcodes in an e-mail to a remote office, for example.

Wi-Fi Configuration Controls

As with the other version of the Scan2Deploy dialog box, this group of controls allows you to configure the automatic configuration of a device's Wi-Fi connection. Fields allow you to enter the SSID, password, security method, and IP settings. If you select **Static** in the **IP Settings** menu, additional field will appear allowing you to configure a static IP address for the device that will scan these Scan2Deploy barcodes.



If you configure Scan2Deploy labels with a static IP address, do not have two different devices scan the same label set, or an IP conflict will result. Consult your network expert for more information.

Pairing Configuration Controls

These fields let you configure your connection to the PC you are running DXU on. These fields are filled in automatically, but you can change them to deliberately connect to another IP address where another instance of DXU is running, for example.

Barcode Settings

As with the other version of the Scan2Deploy dialog box, this tab allows to set the maximum size of each label by symbology. For example, if you know that your devices can scan larger 2D labels than DXU's default setting, you can increase the size of your label so fewer labels are needed to fully deploy your configuration.

Settings Window

The **Settings** window is opened by clicking the Settings button on **DXU** main window. This view includes controls which should seldom need to be changed, such as the language that DXU displays in, TCP ports used to communicate with remote devices, and the About tab that displays DXU's version.

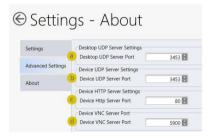


Language Tab

The **Language** tab allows to switch the language that strings in DXU are displayed in. The default language is US English, but you may choose Italian, Chinese Simplified, or Chinese Traditional. Additional languages may be added later without notice.

Advanced Settings Tab

The **Advanced Settings** tab allows to change TCP/IP ports that DXU uses to communicate several types of information with remote computers that are being configured.



The **Desktop UDP Server Port** (a) and the **Device UDP Server Port** (b) fields must be set to the same value as the matching ports on the remote device to ensure communication and remote configuration. The **Device HTTP Server Port** (c) field must be set to the same value as the matching ports on the remote device to ensure communication and remote configuration. The **Device VNC Server Port** field must be set to the same value as the matching ports on the remote device to enable Remote Control.

About Tab

The **About** tab displays DXU's version. This is likely the first question that Datalogic technical support may ask you if you call in with a question.

Desktop Configuration Utility View

This is the view you see when you click on a device's button in the **Available Device** list. It displays a large picture of your device's model, along with the model name and serial number.

Configure this Device Button

This button allows to configure individual parameter values on your device from DXU. The types of settings include scanner settings, enterprise settings, system configuration settings, DXU Agent configuration settings, SoftSpot settings, Tap2Deploy device-side settings, and SureLock settings. Other settings may be added in the future. Additional settings may be available depending on hardware options installed on your device, and may depend on software installed on your device.

Device Info Button

Clicking this button displays the **Device Info** window, which displays your device's Wi-Fi radio capabilities, the type of barcode scanner on the device, the operating system version, battery information, the firmware version installed on your device, and the version of the enterprise SDK, which may be important for troubleshooting.

© Device Info	ODATALOGIC
A THE MERIDIAN AND A THE MERIDIANA AND AND A THE MERIDIANA AND AND AND AND AND AND AND AND AND	With Image: Comparison of the compar

Remote Control Button

Clicking this button opens a **Remote Control** window that displays what is visible on the screen of the device you are currently connected to. This window also includes buttons to remotely activate the devices external buttons, and to capture a screen shot of what is visible on its screen.

Firmware Update Utility Button

Clicking this button opens the **Firmware Utility** dialog box, which you can use to update the firmware on your device.

© Desktop Configuration Ut	tility	ODATALOGIC
	Configure This	Termane Vogity Image Nage In Device Model Sub Device Of Spec Android 64.4 Wession Last 32(257)(20)
	Device Info	Reverse houge to hold Model 0x.Asset 05 Syste Andred Wone 2555271200 Select toold Too studies
	Remote Contro	Rear Type COLOURINGHOUSE/2015/2017 Reven Stelan Stelan
SME (Concold via ADB Sandhard Mayufri77,633,5099	Firmware Utility	y

Scan2Deploy Button

Clicking this button opens the **Scan2Deploy** dialog box (see see 'Printing Custom Configuration Barcodes" on page -101). Use it to create Scan2Deploy barcode sets that can fully configure a device without network access to DXU on your PC, containing all configuration settings in one set of barcodes and applying them by scanning the labels - all without the need to use Simplified Deploy.

Tasks

Connect to a Device via USB

You can connect to the Skorpio X4 by connecting it to your PC with a USB cable. DXU will connect to it directly without any further set-up.

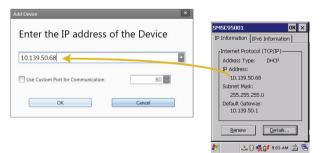
- 1. Launch DXU.
- 2. Connect your device to your PC with a USB cable.
- 3. Click the device's button in the Available Device list.

Connect to a Device via Network Manually

If DXU Agent on the device has its **Enable Discovery Manager** feature enabled and **DXU** has **Automatic Discovery of Devices** enabled under **Advanced Settings**, then clicking **Refresh** should display it in the **Available Device** list if it is in the same subnet.

However, if you want to manually add a device in **DXU**, make sure both device and system are in the same subnet and follow these steps:

1. From the DXU main window, click Add Device;



In the Add Device dialog box, enter the IP address of the device and optionally its port, if it is has been changed from the default;



You will see the IP Address and port details displayed on the DXU main window along with the model name, serial number, and an illustration of the device.

3. Click **OK** to complete.

The added device will display on the left side of the console under **Available Device**.



You can also directly connect the device to DXU using USB.

Connect to a Device via Network Using Scan2Pair

These steps assume you already have your network set up, and you already have your printer set up. To connect a device to a Wi-Fi access point and to DXU using the default settings, follow the steps below:

- 1. Launch DXU.
- 2. Click Scan2Deploy on the DXU main window.
- 3. Enter the **SSID** and **Password** for the Wi-Fi access point that your device will use to connect to your network.



In most cases you should be able to leave other fields with their default values. You may, of course, change those values as needed to work with your network setup.

4. Click Print Preview.

- 5. Click **Print** in the button bar.
- Since Print dialog boxes vary by the model of your printer, configure the print as you normally do. Close these dialog boxes to exit.
- 7. Click Start menu > Programs > Device Tools > Scan2Deploy.



Scan to Configure, also under Device Tools, allows you to configure a Wavelink Avalanche barcode to configure.

8. Scan the barcode.

Your device should appear in the **Available Device** list of the **DXU** main window. Click **Available Device** to continue configuring your device.

Delete a Device from the Available Device List

Click the exit button (X) located at top right of the device.



Configuration Files

DXU configuration files end with the *.dxu file extension. They are XML files that can contain binary data for some configuration items, such as wallpaper images.

Save a Configuration File

To save a configuration file, follow the steps below:

1. From the **Device Configuration** window, click the **Save As** button.

Save Configuration	×
C:\Users\sfkucera\Cor	nfiguration.dxu Browse
Use Password	
Save	Cancel

- 2. You may type the path and the file name in the field, or you can click the **Browse** button to use a standard file dialog box to explore to the folder of your choice and type the file name. Unusually, clicking the **Save** button in the **Save As** dialog box does not actually save the configuration file, but returns you to the **Save Configuration** dialog box.
- Optionally, you may select the Use Password check box and type a password into the field. This will force anyone who opens this configuration file in the future to correctly type the password in order to open the file.
- 4. Click Save.
- 5. Click **OK** to dismiss the confirmation dialog box.

Open a Configuration File

To load a configuration file previously saved, do this:

- 1. Launch DXU.
- Click the Load Configuration file. This will open a standard file dialog box.
- 3. Explore to your configuration file, select it, and click **Open**.



Open a Configuration File Which is Authenticated

DXU displays a login prompt when you open a configuration file that requires authentication and when you connect to a device with a password set in the DXU Agent.



To open a configuration or to connect to a device which requires authentication:

- 1. Open a configuration file or load the configuration from a connected device.
- Type the user name for this configuration/device into the User Name field.
- 3. Type the password for this configuration/device in the **Password** field.
- 4. Click **OK**.

Edit a Configuration File Off-line

You can edit configuration files even when the device they were drawn from are not connected to DXU. Follow the steps below:

- 1. Open your configuration file.
- 2. Edit any settings you wish.
- 3. Either save the result to a new configuration file, or just save to the same configuration file.

Add Comments to Configuration Settings

Comments can be added to any tab, node, or parameter in the **Device Configuration** window. Comments are indicated with a small text balloon icon.

Decoding Notification Comments		
This is a comment.		
		Goo
	tification 🗏	God
		God
		God
	ons	God
		God
OK Cancel	dge ication	

To add a comment:

- 1. Open a configuration file or load the configuration from a connected device.
- 2. Click Configure This Device.
- 3. Right-click any tab, node, or parameter, then select **Add comment** in the context-sensitive menu.
- 4. Type your comment.
- Click OK save. A small text balloon will appear next to the item you commented on.

To edit a comment:

- 1. Right-click any item with a small comment icon.
- 2. Select Edit comment in the context-sensitive menu.
- 3. Edit your comment.
- 4. Click OK to save.

Show Comments

You can show all comments in a configuration file in one handy table by doing this:

- 1. Open a configuration file or load the configuration from a connected device.
- 2. Click Configure This Device.
- 3. If there are no comments, add them.
- 4. Click Show Comments in the button bar.

You can select and edit comments in this table by double-clicking the **Comment** field. Click the exit button (**X**) to close the dialog box.

Configure a Device On-line

Once you have added the device to **Desktop Configuration Utility**, you can click ist name under the **Available devices** list and use the **Configure This Device** option to start configuring the device. There is also an option to add comments on all the listed settings.



Configure a Device Off-line via Scan2Deploy

DXU's **Desktop Configuration Utility** window allows to generate a **Scan2Deploy** barcode set for device configuration. The device settings modified using the console can be saved, printed and scanned by a remote user of a device to configure it.



The **Device Configuration** tab has the following additional options:

1. **Barcode Type**: selects the barcode symbology used to print the Scan2Deploy labels. Different symbologies have advantages and disadvantages, so DXU gives you a choice.











```
QR Code
```

Aztec

Data Matrix

PDF417

Code 128

2. Include Unmodified Changes: when you configure a device using the console, you don't always wish to configure all the settings, so by default the generated codes for configuration do not include unmodified settings. However, once selected, the Include Unmodified Changes option allows you to also include unmodified changes in the barcode set, letting you fully configure a remote device even when it does not have network access to your DXU console computer.

Datalogic Applications

3. Include Binary Data: DXU configuration files can contain some data in binary formats, like wallpaper images. The Include Binary Data option allows you to include all binary data in the barcode set. Note that excluding binary data can significantly reduce the size of your configuration file, and also the number of barcode labels in a set used to convey that configuration when printed as a Scan2Deploy label set.

To create a Scan2Deploy label set:

- 1. Open a configuration file or load the configuration from a connected device.
- 2. Click Configure This Device.
- 3. Configure any settings you wish.
- 4. (Optional) Save your configuration.
- Click the Back button to return to the Desktop Configuration Utility window.
- 6. Click the Scan2Deploy
- 7. Click the **Device Configuration** tab.
- (Optional) Select the Include Unmodified Changes check box to include all configuration settings in your Scan2Deploy barcodes.
- (Optional) Select the Include Binary Data check box to include binary data like the desktop wallpaper image in the configuration barcodes.



This option will increase the number of barcode labels in the Scan2Deploy label set.

- 10. (Optional) Select the barcode symbology in the **Barcode Type** menu.
- 11. Click **Save** to save your barcode label set as a graphic image file.
- 12. Click **Print Preview**, then click the **Print** button in the button bar and complete using your printer's **Print** dialog box.

To apply the configuration by scanning the **Scan2Deploy** barcodes:

- 1. Resume your device and unlock its screen.
- 2. Launch the DXU Agent application.
- 3. Tap Menu, and then select the Scan2Pair command.
- 4. Scan any label in your Scan2Deploy label set.



Some configurations are small enough to fit on only one barcode label, and others may have many barcodes to scan.

- Continue to scan all the barcodes on the list. Once the last label is scanned, the configuration will be put into effect, and an on-screen notification will confirm that your configuration is complete.
- 6. Tap Home to exit.

Configure DXU

You can change DXU's language and the TCP/IP ports used to communicate with DXU Agent on remote devices, enable automatic discovery of devices, enable logging, and reset DXU's settings back to their default values.

Configure DXU's Language

DXU can display its controls in several languages. US English is the default, but you can also select Italian, Chinese Simplified or Chinese Traditional.

To change DXU's language:

1. From the DXU main window, click Settings.



- 2. Select the language you prefer in the Language menu.
- 3. Click the **Back** button (a leftward pointing arrow in a circle) to return to **DXU** main window.

Configure DXU Communication Settings

You can configure the TCP/IP ports used by DXU to communicate with the DXU Agent on the Skorpio X4. Configure these settings only if you understand how these changes affect your network. Consult your network expert for more information.

To configure DXU's UDP and TCP ports:

- 1. From the **DXU** main window, click **Settings**.
- 2. Click the Advanced Settings tab.

€ Setting	gs - About	
Settings	Desktop UDP Server Settings Desktop UDP Server Port	3453
Advanced Settings	Device UDP Server Settings	
About	Device UDP Server Port	3453
	Device Http Server Port	80
	Device VNC Server Port	5900

- 3. Edit the port values to match the ports used by the DXU Agent on your devices:
 - The Desktop UDP Server Port configures the UDP port for the DXU server running on the console PC. It is set to UDP port 3453 by default.
 - b. The **Device UDP Server Port** configures the UDP port for the DXU Agent server running on the device. It is set to UDP port 3453 by default.
 - c. The **Device HTTP Server Port** configures the TCP port for the DXU Agent server running on the device. It is set to TCP port 80 by default, like common web servers.
 - d. The **Device VNC Server Port** configures the TCP port for VNC running on the device. It is set to TCP port 5900, like common VNC servers.

4. Click the **Back** button (a leftward pointing arrow in a circle to return to the **DXU** main window).

Enable Automatic Discovery of Devices

You can enable the automatic discovery of your device by the DXU. This is not enabled by default.



Do not enable automatic discovery if you have more than one user of DXU console in your subnet, or you risk having two DXU administrators changing the settings on any particular device in your subnet at once. DXU will warn you if it launches and detects another instance of DXU already running in your subnet.

To enable automatic discovery of devices:

- 1. From the **DXU** main window, click the **Settings** button.
- 2. Click the Advanced Settings tab.
- 3. Select the Enable Automatic Discovery of Devices check box.
- 4. Click the **Back** button (a leftward pointing arrow in a circle) to return to the **DXU** main window.

Enable Logging on the DXU Console PC

DXU can log its activities, and this can be very helpful for technical support to help you diagnose those unexpected problems that always seem to pop up after software is released to actual users. Logging is not enabled by default. Once enabled, the DXU's default log file location is stored in your user directory at the following path: "C:\Users\<user>\AppData\Roaming\Datalogic DXU".

To enable logging:

- 1. From the **DXU** main window, click **Settings**.
- 2. Click the **Advanced Settings** tab.

		Log - Notepad -
Settings	Destop UDP Server Settings Destop UDP Server Part 3453	[18/06/2015 15:24:37 : ERROR :: Win32Exception at DXU.Code.AddWelser.AddDwices()
Advanced Settings	Device UDP Server Settings	18/06/2015 15:24:39 : ERBOR :: WebException - at DOU.Utility.HttpUtils.coc DisplayClass9
About	Device UDP Server Port 3453	18/06/2015 15:24:39 : ERROR :: WebException -
	Device HTIP Server Settings Device Http Server Port 00000	at DXU.Utility.HttpUtils.Oc_DisplayClass5 18/06/2015 15:24:40 : ERBOR :: Win32Exception at DXU.Code.AdbHelper.AdbOevices()
	Market Weine A Other Settings- Market Weine Charles C	11/6/2013 53:24.41 (1000) (1) McKeption at 000/011/01/01000 (1) McKeption at 000/011/01000 (1) McKeption (1) McKeption (1) McKeption (1) McKeption (1) McKeption (1) McKeption (1) McKep

- 3. Select the **Enable Logging** check box.
- 4. Click the **Back** button (a leftward pointing arrow in a circle) to return to the **DXU** main window.

Reset Advanced Settings to Defaults

To reset the DXU's Advanced Settings to their default values follow the step below:

- 1. From the **DXU** main window, click the **Settings** button.
- 2. Click the Advanced Settings tab.
- 3. Click the Reset Advanced Settings button.
- 4. Click Yes to confirm.
- 5. Click the **Back** button (a leftward pointing arrow in a circle) to return to the **DXU** main window.

Create Scan2Deploy Labels to Fully Configure Remote Devices

The **Scan2Deploy** button in the **Datalogic Configuration Utility** window can automatically connect devices to Wi-Fi access points and to DXU. Also, the **Scan2Deploy** window has a further tab which allows you to include configuration data in the printed barcodes.

This version of Scan2Deploy can fully deploy a device configuration to devices which don't have network access to DXU on your PC. When the **Include Unmodified Changes** check box is selected, all the configuration items will be included in the barcode set. This option results in several barcodes being generated as true **Scan2Deploy** labels. After scanning the first label in this set, the **DXU Agent's Scan2Deploy** window on your device will display how many barcode labels must be scanned, and your progress in scanning them all. Once they are all scanned, the DXU Agent will apply the configuration changes automatically, as if you had connected to DXU to transfer the changes.



To create **Scan2Deploy** barcodes that can completely configure your device:

- 1. Open a configuration file or load the configuration from a connected device.
- 2. Click Configure This Device.
- 3. Configure any settings you wish.
- 4. (Optional) **Save** your configuration.
- 5. Click **Back** to return to the **Desktop Configuration Utility** window.
- 6. Click Scan2Deploy.
- 7. Click the **Device Configuration** tab.
- (Optional) Select the Include Unmodified Changes check box to include all the configuration settings in your Scan2Deploy barcodes.



This option will increase the number of barcode labels in the Scan2Deploy label set.

 (Optional) Select the Include Binary Data check box to include binary data such as the desktop wallpaper image in the configuration barcodes.



This option will increase the number of barcode labels in the Scan2Deploy label set.

- 10. (Optional) Select the barcode symbology in the **Barcode Type** menu.
- 11. Click **Save** to save your barcode label set as a graphic image file.
- 12. Click **Print Preview**, then click the **Print** button in the button bar and complete using your printer's **Print** dialog box.

To apply the configuration by scanning the **Scan2Deploy** barcodes:

- 1. Resume your device and unlock its screen.
- 2. Launch the **DXU Agent** application.
- 3. Tap Menu, and then select the Scan2Pair command.
- 4. Scan any label in your Scan2Deploy label set.



Some configurations are small enough to fit on only one barcode label, and others may have many barcodes to scan.

- Continue to scan all barcodes on the list. Once the last label is scanned, the configuration will be put into effect, and an on-screen notification will confirm that your configuration is complete.
- 6. Tap Home to exit.

View Device Info for a Connected Device

You can view information about a device that is connected to DXU. This information includes the capabilities of the device's Wi-Fi radio, the type of barcode scanner it has, the OS version, the battery type and state of charge, the firmware version and the version of the Datalogic Enterprise SDK.

To view information about the device you are connected to:

- 1. Load the configuration from a connected device.
- 2. Click Device Info.
- 3. Click the **Back** button (a leftward pointing arrow in a circle) to return to the **DXU** main window.

View Device Info Recorded in a Configuration File

You can view information about the device from which a configuration file was extracted. This information includes the capabilities of the device's Wi-Fi radio, the type of barcode scanner it has, the OS version, the battery type and state of charge, the firmware version and the version of the Datalogic Enterprise SDK.

To view information about the device from which a configuration file was extracted:

- 1. Open a configuration file or load the configuration from a connected device.
- 2. Click Device Info.

3. Click the **Back** button (a leftward pointing arrow in a circle) to return to the **DXU** main window.

Remote Control

Remote Control allows to see what is displayed on the screen of a connected device. This window also includes buttons to remotely activate the device's external buttons, and to capture a screen shot of what is visible on its screen. Note that clicking a button on screen does not physically press a button, or even trigger it electrically, but sends an event message to the system as if you had pushed a physical key or tapped a physical button on the touch screen.



Unlock the Screen Using Remote Control

You can unlock the screen by dragging your mouse on the **Remote Control** screen.

To start **Remote Control** and unlock a device's screen:

- 1. Launch DXU.
- Connect the device to DXU either directly using USB or through the network via Wi-Fi or Ethernet, or scan a Scan2Deploy label.
- 3. Click the device button in the **Available Device** list.
- 4. Click the **Remote Control**.
- 5. If the device is suspended, press the **Power** button at the bottom of the **Remote Control** window.
- Click the lock icon and drag it rightward, releasing it over the unlocked lock icon at the right edge of the Remote Control window.

1. Home Button

At the bottom of the **Remote Control** window, the **Home** button activates the device's **Home** button, which switches the display to the **Home** screen.

2. Menu Button

At the bottom of the **Remote Control** window, the **Menu** button activates the device's menu. Not all the applications have a menu, so this feature depends on which application is active when you click the **Menu** button.

3. Power Button

At the bottom of the **Remote Control** window, the **Power** button toggles the device's power state as if you had pressed the device's **Power** button. If the device is awake, clicking the Power button will

turn off the screen, locking the screen if the device is configured to do that. If the device's screen is off, clicking the **Power** button will resume the device.

4. Back Button

At the bottom of the **Remote Control** window, the **Back** button takes the device to the previously viewed screen or application as if you had tapped the device's **Back** button.

5. Scan Button

At the bottom of the **Remote Control** window, the **Scan** button activates the device's barcode scanner as if you had pressed one of the **Scan** keys on the device. There are some limitations: the scanner will not scan if:

- there is no application running that can receive its data;
- the Camera application is showing its live preview or taking a photograph or recording a video;
- none of the device's scan buttons are configured to scan.

However, if your device is configured to scan barcodes and an application is receiving the data, then the **Scan** button will trigger a scan remotely.

6. Save a Screenshot of Remote Device

At the bottom of the **Remote Control** window, the **Save** button takes a screenshot of the remote computer and prompts to save it to your PC. The default path is your user folder.

Set a VNC Password

VNC is a standard protocol for remotely controlling PCs and other computers, and it allows the use of a password to prevent unwanted remote access to computers.



The VNC password must match between the DXU console and the DXU Agent on the device.

Set a VNC Password in DXU Agent

You can set a password for VNC in DXU Agent. This field allows VNC communication to be authenticated, so prying eyes cannot remotely connect to and control your device. This field is blank by default.

To set or edit a VNC password in DXU Agent:

- 1. Resume your device and unlock its screen.
- 2. Launch the DXU Agent application.
- 3. Tap Menu to display the menu.
- 4. Tap the **Settings** button.
- 5. Clear the Enable Service check box.



You must clear "Enable Service" before you can change any setting in DXU Agent.

- 6. Tap the **Password** button in the **VNC Settings** section.
- 7. Type a password in the field. It can be numbers, letters, or some punctuation characters.
- 8. Tap **OK**.

- 9. Select the **Enable Service** check box.
- 10. Tap Home to exit.

To authenticate **Remote Control** when a password is set on the device:

- 1. Launch DXU.
- 2. Connect the device to DXU either directly using USB or through the network via Wi-Fi or Ethernet, or scan a Scan2Pair label.
- 3. Click the device button in the **Available Device** list.
- 4. Click the **Remote Control** button.
- 5. Type the device's VNC password in the field, and then click OK.

Set or Edit the VNC Authentication Password from DXU

You can change a device's VNC password from DXU. It is a configuration parameter in the **Device Configuration** window. Follow the steps below:

- 1. Open a configuration file or load the configuration from a connected device.
- 2. Click the **Configure This Device**.
- 3. Click the DXU Configuration tab.
- 4. Click the **General Settings** node in the middle pane.
- Type a password in the VNC Authentication Password field, or edit the value in that field.



The value in this field is encrypted for security. Once entered, it will be displayed as asterisks.

6. Click the **Back** button (a leftward pointing arrow in a circle) to return to the **DXU** main window).

Update Firmware

You can update the Skorpio X4's firmware from DXU. DXU provides the following options:

- a Silent Install where no user interaction is required on the device;
- a Force Update where the firmware is reinstalled even if the device reports that it already has the same version installed;
- a factory data reset or an enterprise reset can be performed after updating the firmware;
- the update can simply reboot the device without performing an update.



DXU firmware update is not the only way to update the firmware on the Skorpio X4. DXU's firmware update capability works only with connected devices. If you need a method that can update firmware on many devices remotely, especially if they are not connected to a network, then other methods may suit your needs better. Please consult your device's user reference guide for other firmware update methods.



Customarily firmware update is referred to as "update" on devices that use Microsoft Windows operating systems, and it is referred to as "upgrade" on devices that use the Android operating system. These terms are used because the creators of these operating systems use these terms, but the terms essentially mean the same thing.

Silent Install

This option allows to perform an image update that does not require any user interaction on the device. If cleared, the user will be prompted to perform the update, but has the option to cancel the update. This check box is not selected by default.

Force Update

This option allows you perform a full upgrade of the firmware regardless of what is installed on the device. By default, the firmware upgrade utility will compare the version of the image file with what is already running on the device, and if they match it will skip updating. This is done to save time and prevent inconveniences for most users in the field. However, in rare circumstances a firmware image can become corrupted in the field, and this option allows a DXU administrator to perform a full firmware upgrade, disregarding the version reported by the device.

Factory Data Reset After Installing Firmware

A factory data reset is a full reset of the device intended to return it to factory defaults. This reset deletes all user data, settings and installed applications, and resets the device's real-time clock to its default date and time. Data on microSD cards is not affected.

Enterprise Reset After Installing Firmware

An enterprise reset is much like a factory data reset, except that it does not reset network connections (such as Wi-Fi settings), custom desktop wallpaper graphics and splash screen graphics. In every other way, it resets the device, including restoring flash memory to factory defaults, removing installed applications, deleting user data, and resetting the date and time to default levels.

Update Firmware on a Connected Device

You must first connect to a device to update its firmware with DXU. The connection can be either with USB, or over a network using Wi-Fi or Ethernet.

To perform a firmware update with DXU:

- 1. Launch DXU.
- 2. Connect the device to DXU either directly using USB or through the network via Wi-Fi or Ethernet, or scan a Scan2Pair label.
- 3. Click the device button in the **Available Device** list.
- 4. Click the Firmware Utility button.
- 5. Click the **Browse** button to open a standard file dialog box to browse for and select a suitable firmware image file.



DXU will automatically filter your view of file types to those that are compatible with your device.

- 6. Navigate to your firmware image file, select it and click **Open**.
 - (Optional) Select the Silent Install check box if you wish to perform a firmware update that does not require user interaction on the device.
 - (Optional) Select the Force Update check box if you wish to force a complete reinstallation of this image on the device.
 - (Optional) Select an option from the Reset Type menu if you wish to perform a factory data reset or an enterprise reset after the image update is completed, or if you just want to have the device reboot without resetting at all.
- 7. Click Update.

Configuring SureLock and SureFox

Device and browsing lockdown can occur using **SureLock** and **SureFox**. These lockdown settings can be set via the DXU desktop. There are two important prerequisites to configuring these settings when creating a DXU configuration file:

- The EULA on the device must first be accepted. This can be performed by first launching **SureLock** or **SureFox** on the device and accepting the EULA. Future versions of DXU Desktop will allow you to remotely accept this EULA just once for your entire installation.
- The Enable SureLock Password and/or Enable SureFox Password fields must have the current password. The Default password is "0000".

aultView			
Scanner			-
Enterprise	Enable Surelock Settings	Enable SureLock	
ystem configuration	Surelock Activation	Enable SureLock Password	
DXU configuration	Allowed Application		
SoftSpot	Manage Shortcuts		
SureLock	Allowed Widgets		
Tap2Deploy			
SureFox	Phone Settings		
	Widget Settings		
	 Options 		
	Display options		
	 Settings 		
	Timeout Settings		
	Scheduled Reboot Settings		
	Screensaver Settings		
	Memory Settings		
	Titlebar Settings		
	Menu Access		
	Surelock Analytics Settings		
	Power Saving Settings		





Change the SureLock and/or SureFox Password

After completing the above steps, you can enter the new password in the **Change Password** field.

€Dev	vice Config	uration		
efaultView				
Scanner				
Enterprise	Enable Surelock Settings	Change Password		
System configuration	Surelock Activation	MultiUser Mode		
DXU configuration	Allowed Application	Single App Mode		
SoftSpot	Manage Shortcuts	Application Launch Delay	500	
SureLock	Allowed Widgets		20 [2]	
Tap2Deploy		Disable Bottombar		
SureFox	Phone Settings	Hide Bottombar		
	Widget Settings	Use Advance Hide Bottom Bar		
	* Options	On Home Button Press GoTo	Last Accessed Folder	
	Display options		Last Accessed Polder	
	* Settings	Disable Touch Inputs		
	Timeout Settings	Lock Safe Mode		
	Scheduled Reboot Settings	Lock Safe Mode Password		_
	Creasersuar Cattinor	Camera Sattioor	Doot Care	

SureLock

O Device Configuration

DefaultView

Scanner			
Enterprise	Enable SureFox Settings	Change Password	****
System configuration	SureFox Activation	Run At Startup	
DXU configuration	Allowed Websites	Enable Javascript	121
SoftSpot	Categories		1
SureLock		Enable Plug-in Support	
Tap2Deploy	General Settings	Use Back button for browsing	\square
SureFox	 Browser Preferences 	Allow exit using Back Button	
	Scheduled Reboot Settings	Enable Trackball	2
	Scheduled App Restart Settings	Enable Private Browsing	$[\nabla]$
	Tabbed Browsing SureFox Analytics Settings ProxySettings On Home Page Load	Accept Cookies	ſ ∀ I
		Save Form Data	
		Save Passwords	
	Misc Settings	Enable Cache	
		Parallel and a Brannalina	

SureFox

Command Line DXU Execution

DXU allows for command line execution, i.e. via a .bat batch file. This is a convenient method for configuring multiple devices without the need to launch the UI or the DXU desktop, or to configure Simplified Deploy. This configuration can happen via USB or through Wi-Fi (assuming the device has already been connected to the Wi-Fi network).

Optionally, you can perform Simplified Deploy with a manifest file, without using Scan2Deploy.

Usage

DXU command line options are:

- DXU -put <filename.dxu>
- Applies configuration file to any USB connected devices
- DXU -put <filename.dxu> -ip <ipaddress>
 Applies configuration file to device of specific IP address
- DXU -man <filename.ini>

Applies Simplified Deploy to any USB connected devices

DXU -man <filename.ini> -ip <ipaddress>
 Applies Simplified Deploy to device ofspecific IP address

To output a log file, add the optional parameter:

-log <logfilename>.

Datalogic Desktop Utility

Datalogic Desktop Utility (DDU) allows administrators to configure Windows[®] devices to control individual user access. This includes the ability to:

- Prevent users from changing your device OS settings.
- Use the Application Selector to replace the desktop with a selection of authorized applications.
- Restrict user access in Internet Explorer.
- Set up configuration and customized error recovery mechanisms.
- Create quick access hot keys and configure trigger actions.

To open the DDU, double-tap the **DDU** icon on the Control Panel:



You can also open the DDU by pressing the appropriate key shortcut. The default is "Alt + 6".



You can change the key combination and specific keys (such as <F1>-<F10>) by using DL Buttons. See DL Buttons on page 83 for more information.

Administrative Options (Admin tab)



Command	Description
Enable Datalogic Desktop	Select to activate the DDU functions such as Windows Access Restrictions and Application Selector.
Enter password	Allows to specify a password when this utility is launched.
Re-enter password	Re-enter the password for confirmation.
Set Password	Tap to enable the password.
Set Defaults	Tap to reset the default values of all the functions on all the tabs. After you select this option, you will receive a prompt to verify this selection.

Set a Password

To set a password, follow the steps below:

- Enter a password in the Enter password text box. By default the password is "1234". A password can consist of all standard keyboard characters.
- 2. Re-enter the password in the second text box.
- 3. Tap **Set Password** to enable the password.
- 4. Tap **OK** to close the **Password Set** dialog box.







Be sure to record the Password for future reference.



Tap "Set Password" before exiting DDU in order to store and activate your new password. It is not necessary to select Enable Datalogic Desktop.



Set Defaults removes all custom settings and restore all the factory default settings, except a previously set password.

Change a Password

To change to a new password:

- 1. Enter a new value in the Enter password text box.
- 2. Re-enter the new value in the Re-enter password text box
- 3. Tap Set Password.

Remove a Password

To remove a password:

- 1. Enter blank in both password fields.
- 2. Tap Set Password.

Password Request Dialog Box

Once the password is set, the next time you launch the **Datalogic Desktop Utility**, the DDU password dialog box opens:



- Type in your password using either the keypad on the unit, or using the stylus on the soft input panel (SIP). If you enter an incorrect password, the system will prompt you to input the correct one.
- 2. Tap OK to verify the password, or tap X to cancel.

Locked Web Browser Options (LockedWeb Tab)

Tap the **LockedWeb** tab to access the Locked Web Browser configuration.



Locked Web Browser is disabled by default. To enable, use the Advanced Settings tab.

For further information about Locked Web Browser commands and metatags, see Locked Web Browser Options (LockedWeb Tab) on page 144.

Error Page Redirection

Use the **Error redirection** option to provide customized recovery from common errors. When an error occurs, the browser can redirect access to a specified error page with instructions on how to recover from the problem.

Datalogic Desktop Utility OK 🗙
Admin LockedWeb Status Win 4
Error redirection
(400) Invalid Syntax 🔍 👻
Error page:
Full screen 🔽 Trap keys
Status icons 🔽 Exit password
Browser home page:
file://\Windows\default.htm
Advanced

Error Redirection Options			
Error Type	The Error Type drop-down list displays available Error Types: (400) Invalid Syntax, (403) Request Forbidden, (404) Object Not Found, (406) No Response Format, (410) Page Doesn't Exist, (500) Internal Server Error, (501) Server Can't Do That, Generic Error, Network Disconnected.		
Error Page	Edit this textbox to associate a website or html file with the specified error.		
Other Option	5		
Full Screen	Sets the web browser in full screen mode.		
Status Icon	Enables or disables the status icons view (see Status Icons Options (Status Tab) on page 149). The status icons can be configured on the Status tab of DDU.		
Trap Keys	 all key presses will be trapped by the Locked Web Browser to prevent the user from accessing unsafe parts of the sys- tem. For example, pressing "Ctrl + O" to open a file will not work; safe key presses (e.g. Alpha numeric) will still get processed by the Locked Web Browser as normal. For example enter- ing a number in a text field on a web page; DL Buttons keys will not work in the LockedWeb Browser; all Locked Web Browser command keys will work (e.g. "Ctrl + O" to exit). When not selected: all keys will be processed normally by the system and the browser; DL Buttons keys will work normally; all Locked Web Browser command keys will work (e.g. "Ctrl + O" to exit). 		

Other Options		
Exit password	When selected, you are prompted for a password to exit the Locked Web Browser. This password is different than the DDU password, with a default value of "0000", and can be changed in the Advanced settings.	
Browser Home Page	Sets the Internet Explorer home page, regardless of the enable state of the Locked Web Browser.	
Advanced	Allows to enable the Locked Web Browser and to configure advanced settings.	

Advanced Settings

Locked Web Browser OK ×	Locked Web Browser OK ×
General Context Menu	General Context Menu
Enable Locked Web Browser Disable cache	Context menu Options :
Allowed website list Change Exit Password	Context ment options . ▼ Refresh ▼ Back ▼ Stop ▼ Home ▼ Current URL ▼ Minimize ▼ About ▼ Exit

Advanced Locked Web Browser Options		
General		
	Enables the Locked Web Browser when Internet Explorer is launched.	
Disable Cache	Prevents the browser from loading the local intranet page from cache instead of navigating to the Network Disconnected error redirection page.	

Advanced Locked Web Browser Options			
	Restricts browsing only to files and URLs in the Allowed Website List (accessed by the <u>button</u>). The following dialog box appears:		
Allowed Website List	Allowed Website List Allowed Website List × File://Windows/\default Add File://Windows/\default.htm http://www.datalogic.com http://www.datalogic.com Update		
	Tap Add to add allowed URLs to the white list. Other sites will be restricted when the option is enabled. Domain names must be exactly specified.		
Change Exit Password	Allows to change the password required to exit the Locked Web Browser (when the Exit password option is selected on the LockedWeb tab in DDU).		
Context Menu	nu		
Enable Context Menu	Enables the context menu accessed by a touch screen tap in the Locked Web Browser.		
Refresh	Adds a Refresh item to the Locked Web Browser context menu.		
Stop	Adds a Stop item to the Locked Web Browser context menu. Selecting during navigation stops the downloading of a page.		
Current URL	Adds a Current URL item to the Locked Web Browser context menu. Selecting the item pops up a dialog displaying the URL for the current web page.		
About	Adds an About item to the Locked Web Browser context menu. Selecting the item pops up the About dialog.		

Advanced Locked Web Browser Options			
Back	Adds a Back item to the Locked Web Browser context menu. Selecting the item allows to navigate to the previous page.		
Home	Adds a Home item to the Locked Web Browser context menu. Selecting the item allows to navigate to the IE home page.		
Minimize	Adds a Minimize item to the Locked Web Browser context menu. Selecting the item minimizes the Locked Web Browser and allows access to other programs.		
Show SIP	Adds a Show SIP item to the Locked Web Browser context menu. Selecting the item toggles the show state of the SIP.		
Exit	Adds an Exit item to the Locked Web Browser context menu. Selecting the item exits the Locked Web Browser with an optional password (set in the Locked Web Browser Advanced options).		

Status Icons Options (Status Tab)

Tap the **Status** tab to access the Status lcons option. You can configure the view of some status icons that are used in **LockedWeb** and in **Application Selector** to display the status of Wi-Fi radio and battery.

Data	logic Desktop Utility OK	×
Adm	in LockedWeb Status Win	
	Icon size: 100%	
	[Icon locations	
	Wi-Fi: Lower left 💌	
	Battery: Lower left 🗨	

Status Icons Options	
lcon size	Sets the status icons' size.
lcon locations	Selects the preferred location for each status icon.

Windows Controls (Win Tab)

Tap the **Win** tab to allow or restrict access to Windows system functions.



You can disable normal Windows functions such as the taskbar, leaving nothing but a blank workspace. This allows to run applications in full screen mode and prevents users from accidental or unauthorized use of the taskbar, Internet Explorer, and any other resident applications.

Windows Cont	Windows Controls	
Show taskbar	Select to display/hide the Taskbar.	
Taskbar enabled	Select to display the taskbar. This option is only available when Show taskbar is selected.	
Start menu enabled	Select to display the Start Menu . This option is only available when Taskbar enabled is selected.	
AutoSIP enabled	Enables the AutoSIP Windows feature.	
Scroll bars enabled	Select to display horizontal and vertical scroll bars to help view large web pages which do not fit the screen. This control only takes effect in Locked Web Browser.	
WEC7 desktop enabled	Select to display the desktop icons.	



Changes require a device reboot.

AppSelector Options (AppSelect Tab)

The Application Selector replaces the desktop and allows only authorized use of applications.

Tap the Application Selector tab (**AppSelect**) to edit, add, or delete applications for the application selector.

Datalogic Deskt	top Utility	OK ×
Status Win A	ppSelect	•
Enable App	lication Sele	ctor
Show statu	us icons	
Authorized a	pplications	
Title	Executable	An
1		
New Edit	Del U	Jp Down

Application Selector Options	
Enable	
Application Selector	Select to enable the application selector.
Show status icons	Select to enable the status icons view (see Status Icons Options (Status Tab) on page 149). The status icons can be configured on the Status tab of DDU.
Authorized applications	List of applications that the user can access.
Application Se	lector Commands
New	Tap to create a new application entry.
Edit	Tap to edit the selected entry.
Del	Tap to delete the selected entry.
Up/Down	Tap to move an entry up or down in the ListView.

Add Application

The **Add Application** dialog opens when you tap either **New** or **Edit**. Use it to configure and/or add/change a new application entry in the list.

Applications with the **Run Application at Startup** option enabled will start automatically when the Application Selector starts up.

Add Application	ок 🗙
Application title:	Locked Web
Executable:	\windows\iesam
Arguments:	
Icon file:	
Run applicatio	n at startup 📃
Delay (secor	nds):
Password:	

Command	Description
Application Title	Type the name of the application in the way it should appear on screen for the end-user.
Executable	Displays the path for the executable file you want to run.
Browse	Tap to browse for the desired executable file. You can associate an executable program with the specified button. The results of this search are displayed in the Executable textbox.
Arguments	Type any command line arguments to be used when an application is executed.
lcon File	Displays the path to the desired icon file.
Browse	Tap to browse for the desired icon file. The results of this search are displayed in the Icon file textbox.

Command	Description
Run Application at Startup	Select to force the application to auto start when the Application Selector starts up. Applications will be started in the order listed in the authorized application list.
Delay	Enter a delay duration in seconds in the combo box. This option delays auto start of application(s) to allow drivers to load before starting applications.
ок	Tap to add/save changes.
x	Tap to cancel.

App Selector (Application Selector)

The Application Selector is an application allowing a device to run in kiosk mode. The administrator can choose for the user to have access to the desktop or not.

The Application Selector can replace the desktop and limit the user to the specified list of applications.

By default, the Application Selector comes with no applications preset.



The administrator can customize this list as shown in AppSelector Options (AppSelect Tab) on page 152. Additionally, the page template can be modified to display a different background. Contact your Datalogic representative for more information on this feature. To run an application, tap its name.

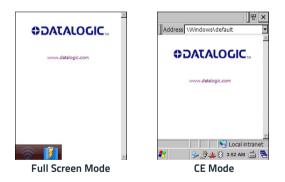
To exit the Application Selector, press "ALT + 6", deselect the **Enable Application Selector** check box on the **AppSelect Tab** and press **OK** to exit DDU.

Locked Web Browser

The Locked Web Browser is a browser helper object for Internet Explorer. It allows an administrator to define a restricted internet usage environment. Once in the restricted environment, a password is required to exit. This means users can only access web applications and websites set by the administrator.



Configuration is set up through the DDU control panel. See Locked Web Browser Options (LockedWeb Tab) on page 144 for more information.



In full screen mode, status icons may be used to display signal strength and battery status. In CE mode, the status bar is displayed but the user interaction is disabled.

In the restricted environment, the user can navigate by using the following keyboard shortcuts:

Home	Ctrl + 7
Refresh	Ctrl + 8
Cancel	Ctrl + 9
Exit	Ctrl + 0

For firmware versions 1.60 and greater, the following command line arguments are supported:

- /E optional parameter which allows for Exit without entering a password
- @URL optional parameter which specifies a URL to use as a home page.
- /C optional parameter which disables the ctrl keys (including the one to exit).

Locked Web Browser Special Metatags

General Metatag Comments

A metatag is a special HTML tag that stores information about a Web page but does not display in a Web browser. For example, metatags provide information such as the program used to create the page, a description of the page, and keywords relevant to the page.

As per the HTML specification, all metatags must be contained within a <head> ...

</head> tag set.

Also, the head tag set must be complete within the first 15K of the web page.

The Datalogic Locked Web Browser defines some special metatags that allow the web application to interact with the device:

In particular, the special metatags allow it to:

- enable/disable scan engine triggers
- enable/disable specific symbologies in the scan engine
- easily assign a key press to a javascript function.

Metatag settings of trigger enable, symbology enable, or DL_Key assignments persist past the page in which they are loaded. The settings stay in effect until they are changed by another metatag.

Trigger Metatag

DL_Triggers - "Enable" or "Disable" all triggers

If the page contains this tag, the triggers are enable or disable depending on the "content=" value.

Example:

<meta http-equiv="DL_Triggers" content="Disable">

GetSerialNumber Meta-tag

DL_GetSerialNumber – Obtains the device serial number and sends it as an argument to a customer's javascript function.

Content – name of function to pass serial number to.

Example:

<meta http-equiv="DL_GetSerialNumber" content=

"Javascript:CustomerFunction">

When a page with this metatag is loaded, the content should be a javascript function that receives one parameter, the serial number. An example would be function CustomerFunction(SerialNumber).

Reboot - Warm Boot Device Metatag

DL_Reboot - Warm boot device.

Content – "OnPageLoad" – Warm boot immediately upon page load. Example:

<meta http-equiv="DL_Reboot" content=" OnPageLoad ">

Exit Metatag

DL_Exit – Exit the Locked Web Browser.

Content – "OnPageLoad" – Exit immediately upon page load. If "Exit password" has been enabled in the Locked Web Browser options, the Exit password will be required before exit.

Example:

<meta http-equiv="DL_ Exit " content=" OnPageLoad ">

Decoding Metatags

Each decoding metatag has a possible content of "Enable" or "Disable". The settings are valid for the entire page (enables/disables each symbology).

DL Code 39 DL Code 128 DL Code 125 DL Code S25 DL Code M25 DL Code CODABAR DL Code 93 DL Code UPCA DL Code UPCE DL Code EAN13 DL Code EAN8 DL Code MSI DL Code MSR DL Code GS1 14 DL Code GS1 LIMIT DL Code GS1 EXP DL Code PDF417 DL Code DATAMATIX DL Code MAXICODE DL_Code_TRIOPTIC DL Code PHARMA39 DL Code RFID DL_Code_MICROPDF417 DL Code COMPOSITE DL Code ORCODE DL Code AZTEC DL_Code_POSTAL

Examples: <meta http-equiv="DL_Code_39" content="Disable"> <meta http-equiv="DL_Code_125" content="Enable">

Key Press Metatags

The key press metatags can be used to call JavaScript functions. They have the name structure: "DL_Key_xxx" where xxx is the VKey code.

Example:

<meta http-equiv="DL_Key_13" content="Javascript:CheckEnter();">

Assigning a key press via a DL_Key metatag overrides its use on the page. For instance, when entering data in a text box a character assigned as a DL_Key would not be entered in the text box. Instead, the javascript action would occur.

Refer to the Microsoft website to find the list of all the possible Vkey codes:

http://msdn.microsoft.com/en-us/library/bb431750.aspx

http://msdn.microsoft.com/en-us/library/aa243025(VS.60).aspx



Because DL_Keys persist past the page in which they were loaded, the DL_Clear metatag is provided to clear the settings on subsequent page loads.

Scanning Metatags

DL_Scan – Captures scan results and sends barcode/tag value to a javascript function on the web page.

If the "content=" value is a javascript function the device will be taken out of keyboard wedge mode and start listening for scan events. A scanned barcode/tag result will be used as an argument to that javascript function which is then invoked.

If the "content=" value is "Wedge" then the device will stop listening for scanned event and enter keyboard wedge mode.

If the "content=" value is "Disable" then the device will stop listening for scanned events but not enter keyboard wedge mode.

Example:

<meta http-equiv="DL_Scan" content="Javascript:ValidateInput()">.

PAL and PAL Communicator

Pal is an easily customizable program that is ready-to-use for data entry needs.

Pal Communicator is a PC application that allows you to manage the data transfer between a host computer and mobile devices.

For further information refer to the Pal & Pal Communicator User's Guide, downloadable from our website (see Support Through the Website on page 239).

Autostart

The AutoStart program provides three functions:

- allows to create a list of applications (with optional command line arguments) to run automatically before loading CAB files;
- automatically reinstalls specified CAB files when the Skorpio X4 is cold booted;
- allows to create a list of applications (with optional command line arguments) to run automatically after loading CAB files.

AutoStart launches each time the Skorpio X4 is rebooted executing each line with the specified command line arguments. It will take into account any AutoStart options at the beginning of the line.

Upon a Cold Boot, AutoStart installs all the CAB files located in the \FlashDisk\CAB folder. If the CAB folder does not exist, no CAB files will be installed.

AutoStart will then run the **Autostart.ini** from the \flashDisk directory, executing each line with the specified command line arguments. It will take into account any AutoStart options at the beginning of the line.

Installing CAB Files

Copy any CAB files you want to install into the \FlashDisk\CAB folder. These CAB files will then be automatically in-stalled in alphabetical order the next time you start the device.

How AutoStart Uses Wceload



If you intend to create highly interactive installers, you should either install the CABs manually or review the section Interactive CAB Install on page 166.



In certain environments, CAB files will be deleted after execution. To prevent the CAB file from being deleted, write protect the file before copying the file onto the device.

CAB files are installed by AutoStart using the **Wceload.exe** application. The following table shows available command line option:

Option	Description
/noui	Specifies that you will not be prompted for any input during the installation. If the CAB file is signed, any responses will automatically be answered Yes . If the CAB is unsigned, then any responses will be answered No .
/silent	Suppresses dialog boxes during the installation.

Please refer to the Microsoft documentation on your device for further details on **Wceload.exe**.

Sample:

\Windows\Wceload.exe /delete 1 /noui /silent
"\FlashDisk\CAB\<cab file>"

Interactive CAB Install

If the CAB installer requires user interaction that must be performed during the AutoStart CAB installation process, you can specify a special file name to disable the silent mode installation. If this mode is specified, the CAB file will be installed with Wceload without any command line arguments specified.

An example of what AutoStart would execute is:

\Windows\Wceload.exe <cab file>

To force this mode of installation via AutoStart, rename the CAB file to include a _ character before the **.cab** extension of the file. Example:

File.cab should be renamed **File_.cab** to force AutoStart to not install the CAB in silent mode. This specially-named CAB file should be placed in the AutoStart folder with other CAB files intended for installation on the next reboot.

Autostart.ini



A file named PreAuto.ini can also be created in addition to or instead of Autostart.ini. PreAuto.ini is executed before CAB files in the \FlashDisk\CAB folder are installed. Autostart.ini is executed after CAB files in the \FlashDisk\CAB folder are installed. The format for the PreAuto.ini is identical to that of Autostart.ini.

Autostart.ini is a text file that AutoStart will run upon startup of the Skorpio X4, and after any CAB files are installed. This file should be placed in the \flashDisk folder. AutoStart will run the Autostart.ini file on each reboot of the device.

Line Formatting

Each line of the Autostart.ini can consist of Autostart options, an executable, and any command line arguments.

< Autostart option(s)> <full path to executable> <command line arguments> Sample:

- \windows\pword.exe \file.doc

The following table breaks down the sample Autostart.ini line:

Autostart Option(s)	Full Path to Executable	Command Line Arguments
-	\windows\pword.exe	\file.doc

Spaces must be placed between each component of the line in the Autostart.ini.

If the executable path is in a folder that contains spaces in the name, quotes are required to distinguish what the actual executable name is. The following is an example of this:

"\Program Files\ScannerApp.exe" /run (valid) \Program Files\ScannerApp.exe /run (invalid)

The second line is an invalid line because there is no way to distinguish the executable from the argument.

AutoStart Options

The table below shows the options you can use when writing a line in the Autostart.ini file.

Description	Character	Comments
Comment: This line will not be executed.	'#' OR ' ' (space)	This may only be used as the first character of the line. If the comment option is specified in the options elsewhere, it is ignored.
Do not wait on line completion: This will cause the line to execute and immediately move onto the next line.	1_1	
Query: Request user confirmation when running the executable.	'?'	This will halt parsing the Autostart.ini until the confirmation is answered. This is intended for debugging the Autostart.ini file.
Execute only on Cold Reset	.i,	
Execute only after a warm boot	'0/ '	

Cold Reset Only: This will cause the line to execute only after a Cold Reset.



An empty line will be treated as a comment line.

Combining Options

Autostart options can be combined together as shown in the following sample:

?- \Windows\Pword.exe

This line would:

- request confirmation before executing the line. The next line would not be processed before the confirmation is answered;
- run the next line without waiting on the current line to complete execution.

Query Option

The query option is intended for use when debugging the autostart.ini. When a line with this option is executed, the fol-lowing dialog box will appear with the specified executable and command line arguments. The populated fields shown in the AutoStart Execute Query are described the next table:

AutoStart Execute Query	
(1)Execute the following:	
Exe:(Pword.exe)	
Args:("\My Documents\file.doc")	
Yes No Cancel	

Field	Description
Line Number	The line number in the script being executed.
Exe	The executable as parsed by AutoStart.
Args	The argument as parsed by AutoStart.



The fields may be broken up into multiple lines (as shown in the example) due to limited space in the dialog box.

AutoStart Query Options

Parentheses are used to surround the given field and make clear what the value of the field is.

The following table describes the results of each choice:

Button	Action
Yes	The current line will execute.
No	The current line will not execute. AutoStart will continue parsing the Autostart.ini.
Cancel	The current line will not execute and AutoStart will discontinue parsing the Autostart.ini.

Autostart.ini Samples

The next table is a collection of sample Autostart.ini lines:

Line	Description
? \windows\wceload.exe "\My Documents\Sample.cab"	This will confirm the execution of \Windows\wceload.exe with specified argument "\My Documents\Sample.cab"
\Program Files\App.exe	(invalid) This will execute \Program with the argument Files\App.exe.
\Program Files\App.exe /run	(invalid) This will execute \Program with the argument Files\App.exe /run.
"\Program Files\App.exe" /run	This will execute the program \Program Files\App.exe with the argument /run.
?- \Windows\Pword.exe	This will confirm the execution of \Windows\Pword.exe. If the execution is confirmed, AutoStart will immediately process the next line.
!"\Program Files\App.exe" /run	This will execute the program \Program Files \App.exe with the argument /run ONLY after a Cold Reset.

Tools

Windows Embedded Compact 7 SDK

The latest version of the Windows CE SDK can be downloaded from http://www.datalogic.com on the Skorpio X4 product page. This installer includes a detailed help file and sample applications.

Prerequisites

- ActiveSync 4.5 for Windows XP computers: http://www.microsoft.com/download/en/details.aspx?id=15
- Windows Mobile Device Center 6.1 or newer for Windows 7 32-bit computers: http://www.microsoft.com/download/en/details.aspx?id=14
- Windows Mobile Device Center 6.1 or newer for Windows 7 64-bit computers: http://www.microsoft.com/download/en/details.aspx?id=31 82
- For C, C++, C# development, Microsoft Visual Studio 2008:
 - Microsoft Visual Studio 2008 Service Pack 1: http://go.microsoft.com/fwlink/?Linkld=122094 or https://www.microsoft.com/en-us/download/details.as px?id=13276 (iso file)
 - https://www.microsoft.com/en-us/download/details.aspx
 ?id=11935: when debugging Windows Embedded Compact
 7 application using the Visual Studio 2008 for Smart

Devices debugger, a user might not be able to use the single step function. This update addresses this issue

- http://www.microsoft.com/en-us/download/details.aspx?id
 =27729: an update is available for Microsoft Visual Studio
 2008 Service Pack 1 (SP1) that extends support for
 Windows Embedded Compact 7
 (https://support.microsoft.com/en-us/kb/2468183)
- Windows Mobile 6 Professional Development Kits Refresh is required for all Windows Mobile or Windows Embedded Handheld 6.5 devices using C, C++, C# languages. Go to this link to download the file: http://www.microsoft.com/en-us/download/details.aspx?id

http://www.microsoft.com/en-us/download/details.aspx?id =6135

 Windows Mobile 6 Professional Development Kits Refresh is also required for Windows CE devices using C, C++, C# languages when developing on a Windows 7 64-bit computer.

Data Capture

The Skorpio X4 has an integrated imager that collects data by scanning barcodes.

See 'Data Capture Configuration" on page -50 for instructions on configuring the scanner settings.

Imager 1D Data Capture

The imager uses digital camera technology to take a digital picture of a barcode, the image is stored in memory and software decoding algorithms are executed to extract the data from the image.

To scan a barcode symbol:

1. From the **Decoding Properties** window, tap the barcode icon to open the **Decoded Data** window.



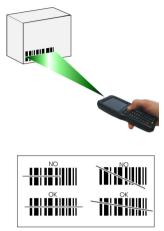
or

From the WEC7 desktop, double-tap the **Microsoft WordPad** icon:



<u>F</u> ile	Edit	⊻iew	Form	PP ?	×

- 2. Point the scan window at the barcode from a distance within the reading range.
- 3. Press the scan key or the pistol trigger. The green lighted band emitted by the imager must completely cross the barcode as shown in the figure on the next page.



If the scan has been successful:

- If enabled, the good read LED glows steadily green for a configurable time.
- If enabled, the good read beep plays.
- If enabled, the Green Spot projects a green spot onto the barcode image.
- The barcode type and content data display on the screen.

The field of view changes its size as you move the reader closer or farther away from the barcode.

Scan symbols with smaller bars or elements (mil size) closer to the unit and those with larger bars or elements (mil size) farther from the unit. Hold the Skorpio X4 between two and nine inches (depending on symbol density) from the symbol.

Imager 2D Data Capture

The imager uses digital camera technology to take a digital picture of a barcode, the image is stored in memory and software decoding algorithms are executed to extract the data from the image. The omni-directional scanning does not require that the operator orient the barcode to align with the scan pattern.

To scan a barcode symbol:

 From the Decoding Properties window, tap the barcode icon to open the Decoded Data window.



or

From the WEC7 desktop, double-tap the Microsoft WordPad icon:

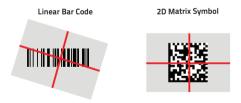


Eile	Edit	⊻iew	Forn	쨗	?	×
-	_	_		1	_	-

- 2. Point the scan window at the barcode from a distance within the reading range.
- Press the scan key or the pistol trigger. The imager projects a laser aiming pattern similar to those used on cameras. The aiming pattern is used to position the barcode or object within the field of view.



4. Center the symbol in any orientation within the aiming pattern. Ensure the entire symbol is within the rectangular area formed by the brackets in the aiming pattern, then either wait for the timeout or release the scan key to capture the image. A red beam illuminates the symbol, which is captured and decoded.



If the scan has been successful:

- If enabled, the good read LED glows steadily green for a configurable time.
- If enabled, the good read beep plays.
- The barcode type and content data display on the screen.

The field of view changes its size as you move the reader closer or farther away from the barcode. The aiming pattern is smaller when the imager is closer to the barcode and larger when it is farther from the barcode.

Scan symbols with smaller bars or elements (mil size) closer to the unit and those with larger bars or elements (mil size) farther from the unit. Hold the Skorpio X4 between two and nine inches (depending on symbol density) from the symbol, centering the aiming pattern cross hairs on the symbol.

Connections

There is more than one way to connect the Skorpio X4 to a host PC running Windows. Each requires specific connections in order to function properly.

Windows Mobile® Device Center

The desktop application Windows Mobile® Device Center allows you to synchronize information between a desktop computer and your Skorpio X4. Synchronization compares the data on the Skorpio X4 with that on the desktop computer and updates both with the most recent information.

Windows Mobile® Device Center can be downloaded from Microsoft website www.microsoft.com. It is only compatible with Windows Vista and Windows 7; if you run Windows XP or earlier, you have to download Microsoft ActiveSync.

You can establish a connection to your Skorpio X4 through the following interfaces:

- USB either directly or through the Single Dock.
- RS232 either directly or through the Single Dock.
- Bluetooth[®] (see Bluetooth[®] Manager Device Setup on page 73)

To establish a partnership between the Skorpio X4 and a host PC, start Windows Mobile® Device Center and follow the steps below:

1. Connect the Skorpio X4 to the host PC. Windows Mobile® Device Center configures itself and then opens.

Connections

- 2. On the license agreement screen, click Accept.
- 3. On the Windows Mobile[®] Device Center's Home screen, click Set up your device.
- 4. Select the information types that you want to synchronize, then click Next.
- 5. Enter a device name and click Set Up.

When you finish the setup wizard, Windows Mobile[®] Device Center synchronizes the mobile computer automatically. Microsoft[®] Office Outlook[®] emails and other information will appear on your device after synchronization.



The Skorpio X4 running WEC7 does not come equipped with Microsoft Office Outlook or any other application that allows users to view contact, calendar, e-mail, or task data. Users can view files copied to the Skorpio X4 by WMDC's file synchronization feature.

USB Connection

USB Direct Connection

You can use any standard USB charge/communication cable to directly connect the Skorpio X4 to a host computer and transfer data through the USB interface.

Host Computer





Connection through the cable complies to USB 2.0 standard.

USB HandyLink™ Connection

You can use the Datalogic HandyLink cable 94A051970 to directly connect the Skorpio X4 to a host computer to transfer data through the USB interface.

Host Computer





The HandyLink cable complies to USB 2.0 standard.

USB Dock Connection

The Single Dock can be connected to the host computer by means of the Micro-B USB cord 94A051968.

Once the host computer has been turned on, insert the Skorpio X4 mobile computer into the dock.

Host Computer





Connection through the dock complies to USB 2.0 standard.



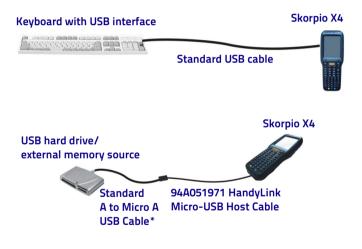
The actual data transfer speed can be appreciably lower than the maximum theoretical speed.



Don't insert the wall charger into the micro USB port when the Skorpio X4 is inserted into the dock.

Connection to USB Peripherals

You can connect the Skorpio X4 to a standard 101-key USB keyboard or to a standard USB flash memory device. Connect the terminal to a standard USB cable or to the Datalogic 94A051971 HandyLink Micro-USB host cable (together with a standard USB cable* if needed). For all these devices maximum current draw must be less than 100mA.



 A standard USB cable is needed only if the USB hard driver or flash memory device does not include its own cable with a "A" plug on it. Connect the Single Slot Dock to the peripheral by means of a Micro-A USB cord, or use a Micro-A to Std-A receptacle USB adapter such as Datalogic 94A051969 (together with a standard USB cable* if needed).





Skorpio X4 works with most of the mentioned USB peripherals. Datalogic cannot guarantee the interoperability of Skorpio X4 with all devices on the market.



Connection complies to USB 2.0 standard.



The actual data transfer speed can be appreciably lower than the maximum theoretical speed.

* A standard USB cable is needed only if the USB hard driver or flash memory device does not include its own cable with a "A" plug on it.

RS232 Connection

You can use the Datalogic 94A051972 cable to directly connect the Skorpio X4 to a host computer to transfer data through the RS232 interface.

Host Computer



RS232 Dock Connection

The Single Slot Dock can be connected to the Host by means of a standard null modem cable such as Datalogic 94A051020 CAB-427 for 9-pin connections.

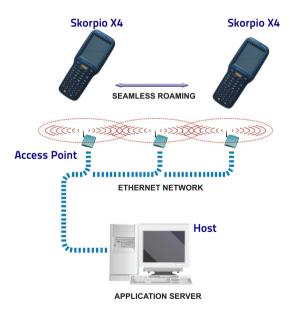
Once the host computer has been turned on, insert the Skorpio X4 mobile computer into the cradle.



WLAN Connection

Skorpio X4 802.11 a/b/g/n radio models can communicate with the host using the on-board Wi-Fi radio and an Access Point connected to a network.

For more information on this utility, refer to WCU (Wireless Configuration Utility) on page 61.



WPAN Connection

Skorpio X4 Bluetooth® models can communicate with a Bluetooth® device, such as a printer, within a range of 10 m, using the on-board Bluetooth® module.

Bluetooth® Printer



Skorpio X4



To extend battery life, the Bluetooth® module is off by default. To enable the Bluetooth®, open the Bluetooth Manager Window (see Bluetooth® Manager Device Setup on page 73).



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



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

Wireless and Radio Frequencies Warnings



Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications or attachments could damage the product and may violate laws and regulations.

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals generated by Skorpio X4.

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.

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.

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If a vehicle's wireless equipment is improperly installed and the air bag inflates, serious injury could result.

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 fuel distribution areas, chemical plants or where any 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 shown.

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

Technical Features

Technical Data

Physical Characteristics			
Dimensions	Handheld: 19.3 x 7.6 x 4.2 cm (6.1 x 3.5 cm at keyboard) / 7.6 x 3.0 x 1.3 in (2.4 x 1.4 in at keyboard). Pistol Grip: 19.3 x 7.6 x 15.6 cm / 7.6 x 3.0 x 6.2 in.		
Weight	Handheld (with standard battery): 388 g / 13.7 oz. Handheld (with hi-cap battery): 422 g / 14.9 oz. Pistol Grip (with standard battery): 482 g / 17.0 oz. Pistol Grip (with hi-cap battery): 516 g / 18.2 oz.		
Display	TFT / Transflective LCD with 240 x 320 pixel resolution. LED backlight and integrated touch screen, 3.2 inch diagonal.		
Keyboard	50-key full alphanumeric, 38-key functional or 28-key numeric keyboard with backlight.		
Environmental			
Drop Resistance		Withstands drops from 1.8 m / 6.0 ft onto concrete.	
Particulate and Water Sealing Temperature		IP64 Operating: -10 to 50°C / 14 to 122°F Storage: -20 to 70°C / -4 to 158°F	

Electrical			
Battery	Removable battery pack with rechargeable Lilon batteries; MicroUSB for fast battery charging. Standard: 3.7 V; 3,000 mAh (11.1 Watt-hours); standard on all handheld models. Extended: 3.7 V; 5,200 mAh (19.2 Watt-hours); standard on all Pistol Grip models.		
Wireless Com	munications		
Local Area Network (WLAN)		TI Wi-Link 8, IEEE 802.11a/b/g/n. Frequency Range: Country dependent, typically 2.4 and 5 GHz; Cisco Compatible CCX v4 Security.	
Personal Area Network (WPAN)		Bluetooth v4 with BLE (Android models). Bluetooth v2.1 + EDR (WEC7 models).	
Interfaces			
Interfaces		Main connector with USB 2.0 High Speed Host (480 Mbps) and Client, RS-232 up to 115.2 Kbps. MicroUSB port for power and communications. Ethernet: via single dock (external module) or multi-slot dock.	

System			
Operating System	Microsoft Windows Embedded Compact 7 (WEC7) or Android v4.4*.		
Audio	Wideband Speech (HD Audio) supported on Android.		
Expansion Slots	Micro Secure Digital slot (SDHC) up to 32 GB.		
Microprocessor	TI OMAP4 @ 1 GHz.		
Memory	RAM Memory: 1 GB. Flash Memory: 8 GB (partially used for firmware and reserved data).		

* OS swap from WEC7 to Android 4.4 or from Android 4.4 to WEC7 is supported on all Skorpio X4 configurations. The OS swap must be performed at a Datalogic Service Center.

Software			
Applications	Pal Application Library pre-licensed (WEC7 only).		
Configuration & Maintenance	Wavelink Avalanche® pre-licensed (WEC7 only), 42 Gears SureLock pre-licensed for device. lockdown (Android only); SOTI MobiControl, Datalogic xPlatform Utility (DXU) pre-licensed, Datalogic Desktop Utility (DDU) pre-licensed for device lockdown (WEC7 only).		
Development	WEC7: Datalogic Windows SDK™, Wavelink® Studio™, MCL-Collection™. Android: Datalogic Android SDK, Xamarin SDK.		
Browser	SureLock locked web browser pre-licensed for WEC7 and Android models.		
Terminal Emulation	Wavelink® Terminal Emulation™ pre-licensed (for Pistol Grip/WEC7 models only). StayLinked SmartTE (for Android).		

Decoding Capability			
1D / Linear Codes	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.		
2D Codes	Aztec Code, Data Matrix, MaxiCode, PDF417, MicroPDF417, Micro QR Code, QR Code.		
Postal Codes	Australian Post, Japanese Post, KIX Code, Royal Mail, USPS Intelligent Mail, USPS PLANET, USPS POSTNET.		
GS1 Composite Codes	UPC/EAN/JAN Composites, GS1 DataBar Composites and GS1-128 Composite (Composites supported on WEC7 only).		
Reading Performance			
2D Imager (Standard Range)	Megapixel sensor for extended range. White LED Illumination. Optical Resolution: 1D codes: 3 mils; 2D codes: 6.6 mils. Depth of Field (typical): 4.5 to 74 cm / 1.7 to 29.1 in (13 mil/EAN), depending on bar code density and type.		
1D Imager	2500 pixel sensor; Sharp green LED scan line. Optical Resolution: 2.5 mils (linear codes). Depth of Field: 4.0 to 74 cm / 1.5 to 29.1 in (13 mil/EAN), depending on bar code density and type.		

Safety & Regulatory			
Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use.		
Enviromental Compliance	Complies to EU RoHS.		
Laser Classifications	VLD - Class 2 IEC/EN60825-1; Compliant with 21 CFR 1040.10 except for deviations pursuant to laser notice No. 50 dated June 24, 2007.		
LED Classification	Exempt Risk Group IEC/EN62471.		
Warranty			
Warranty	1-Year Factory Warranty.		

Decode Distances

Skorpio X4 Imager 1D Linear CCD

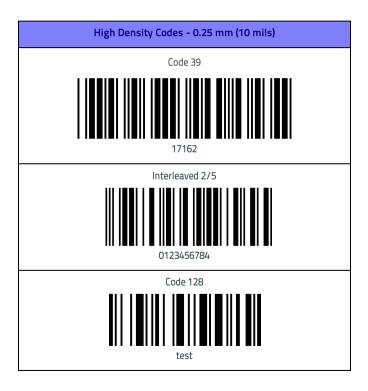
Resolution (mils)/ Barcode Type	Far Typical Working Ranges
3 mils	6.30 in
Code 39	16 cm
5 mils	11.81 in
Code 39	30 cm
10 mils	19.69 in
Code 128	50 cm
13 mils	25.20 in
EAN	64 cm
20 mils	47.24 in
Code 39	120 cm

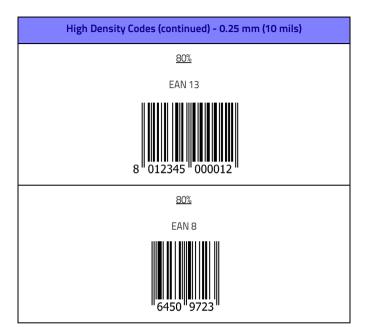
Skorpio X4 Imager 2D

Resolution (mils)/ Barcode Type	Far Typical Working Ranges
3 mils	7.48 in
Code 39	19 cm
5 mils	12.99 in
Code 39	33 cm
10 mils	9.84 in
Datamatrix	25 cm
13 mils	25.59 in
EAN13	65 cm
15 mils	13.78 in
Datamatrix	35 cm
20 mils	39.37 in
Code 39	100 cm

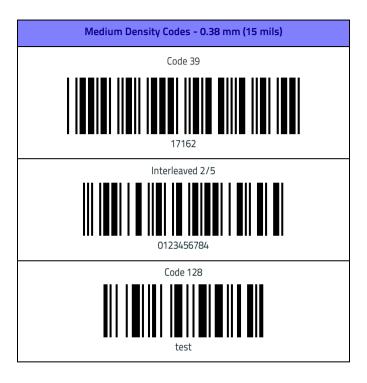


Test Codes

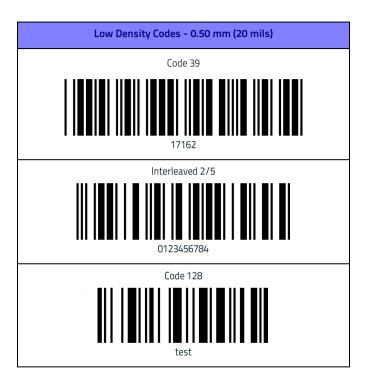


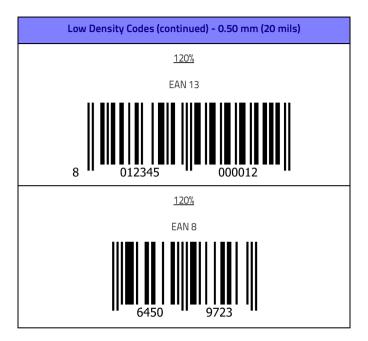


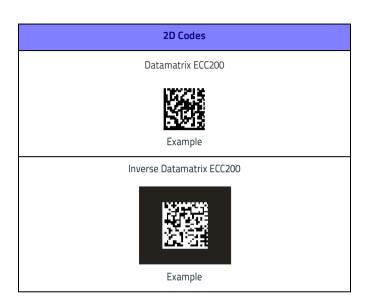
Test Codes













Maintenance

Cleaning the Device

Periodically clean the Skorpio X4 device using a soft cloth slightly dampened with only water or Isopropyl Alcohol (70%). Do not use any other cleaning agents (e.g. different alcohol, abrasive or corrosive products, solvents) or abrasive pads to clean the device.

Dock Contacts Cleaning Procedure

All exterior metal contacts/connectors exposed to spills, dirt or debris accumulation require periodic cleaning to ensure best performance during charging and data transmission.

Use a soft, lint-free dry cloth or lens tissue to clean the product (contacts and plastics). An antistatic cloth is preferable but you can also use a cotton cloth. Avoid wool, synthetic cloths or other materials that can cause electrostatic discharges.

If the contacts are very dirty, clean them with a soft cloth moistened with a diluted non-aggressive cleaning solution or a diluted isopropyl alcohol solution (20% maximum). A cotton swab may be used only on hard-to-reach contacts.

Clean the contacts when you see traces of dirt or when you experience solid connection issues between the terminal and its dock (device not charging or intermittent communications). It is however suggested to clean the contacts every 6 months (more often if the environment is dusty). If the plastic areas are very dirty use only a cloth dampened with water.



Do not use abrasive or aggressive cleaning agents or abrasive pads to clean electric contacts, scan windows or plastics.

Cleaning the Dock Contacts

- 1. Remove the power cable before cleaning the contacts.
- Use a soft dry cloth as suggested above. If the product is very dirty, moisten the cloth in a non-aggressive cleaning solution or diluted isopropyl alcohol solution (20% maximum).
- Gently rub the cloth back and forth ONLY along the contacts, following the directions indicated by the red arrows. Use care not to leave any cloth residue.



- 4. Use a dry cloth to remove any dirt near the contacts area and to clean the plastic parts. If the plastic parts of the equipment are very dirty, slightly dampen the cloth with only water.
- 5. Repeat steps 2, 3 and 4 using a clean dry cloth.

6. Allow the cleaning solution to fully evaporate before powering up the product.

Cleaning the Dock Auxiliary Battery Contacts

- 1. Remove the power cable and the Ethernet module before cleaning the contacts.
- Use a soft dry cloth as suggested above. If the product is very dirty, moisten the cloth in a non-aggressive cleaning solution or diluted isopropyl alcohol solution (20% maximum).
- 3. Gently rub the cloth back and forth ONLY along the contacts, following the directions indicated by the red arrows. Use care not to leave any cloth residue.



- 4. Use a dry cloth to remove any dirt near the contacts area and to clean the plastic parts. If the plastic parts of the equipment are very dirty, slightly dampen the cloth with only water.
- 5. Repeat steps 2, 3 and 4 using a clean dry cloth.
- 6. Allow the cleaning solution to fully evaporate before powering up the product.

Ergonomic Recommendations



In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Safety and Regulatory Information



Read this manual carefully before performing any type of connection to the Skorpio X4.

The user is responsible for any damage caused by incorrect use of the equipment or by inobservance of the indication supplied in this manual.

General Safety Rules

- Before using the device and the battery pack, read carefully the chapter Battery on page 17.
- Use only the components and accessories supplied by the manufacturer for the specific Skorpio X4 being used.
- Do not attempt to disassemble the Skorpio X4, 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 Skorpio X4, disposal must be performed in compliance with the laws in force in your jurisdiction.
- Do not submerge the Skorpio X4 in liquid products.
- For further information or support, refer to this manual and to the Datalogic web site: www.datalogic.com.

Power Supply

The device is intended to be supplied by a self-contained rechargeable Lithium Ion battery pack (UL listed LPS/SELV power source) and/or by UL Listed/CSA Certified Power Unit LPS/SELV power source which supplies power directly to the unit via the micro USB connector of the cable.

The device could be also used with Certified Accessories (Dock/Cradle). The Dock/Cradle accessories are intended to be supplied by a UL Listed/CSA Certified Power Unit LPS/SELV which supplies power via the power connector of the cable.

Any changes or modifications to equipment, not expressly approved by Datalogic could void the user's authority to operate the equipment.

Laser Safety

The following information applies to Laser Aiming System, used on Skorpio X4 variants with 2D imager.

The laser light is visible to the human eye and is emitted from the window indicated in the figure below.

LASER LIGHT - DO NOT STARE INTO BEAM

CLASS 2 LASER PRODUCT

MAX OUTPUT RADIATION 1 mW

COMPLIANT WITH EN 60825-1 (2007) and EN 60825-1 (2014)



The artwork below may be only a draft. Please refer to the label attached to the product for information about certification marks.



ITALIANO	DEUTSCH	FRANÇAIS	ESPAÑOL
LA LUCE LASER È VISIBILE ALL'OCCHIO UMANO E VIENE EMESSA DALLA FINESTRA INDICATA NELLA FIGURA.	DIE LASER-STRAHLUNG IST FÜR DAS MENSCHLICHE AUGE SICHTBAR UND WIRD AM STRAHLAUS TRITTSFENSTER AUSGESENDET (SIEHE BILD)	LE RAYON LASER EST VISIBLE À L'OEIL NU ET IL EST ÉMIS PAR LA FENÊTRE DÉSIGNÉE SUR L'ILLUSTRATION DANS LA FIGURE	A LUZ LÁSER ES VISIBLE AL OJO HUMANO Y ES EMITIDA POR LA VENTANA INDICADA EN LA FIGURA.
LUCE LASER NON FISSARE IL FASCIO APPARECCHIO LASER DI CLASSE 2 MASSIMA POTENZA MEDIA DI USCITA: 1 mW LUNGHEZZA D'ONDA EMESSA: 630~680 nm CONFORME A EN 60825-1 (2007) E EN 60825-1 (2014)	LASERSTRAHLUNG NICHT IN DER STRAHL BLINKEN PRODUKT DER LASERKLASSE 2 MAXIMALE DURCHSCHNITTLICHE AUSGANGLEISTUNG: 1 mW WELLENLÄNGE: 630-680 nm ENTSPR. EN 60825-1 (2007) UND EN 60825-1 (2014)	RAYON LASER EVITER DE REGARDER LE RAYON APPAREIL LASER DE CLASSE 2 MAXIMUM PUISSANCE MOYENNE DE SORTIE: 1 mW LONGUER D'ONDE EMISE: 630-680 nm CONFORME A EN 60825-1 (2007) ET EN 60825-1 (2014)	RAYO LÁSER NO MIRAR FIJO EL RAYO APARATO LÁSER DE CLASE 2 MÁXIMA POTENCIA MEDIA DE SALIDA: 1 mW LONGITUD DE ONDA EMITIDA: 630~680 nm CONFORME A EN 60825-1 (2007) Y EN 60825-1 (2014)

ENGLISH

The following information is provided to comply with the rules imposed by international authorities and refers to the correct use of your device.

STANDARD LASER SAFETY REGULATIONS

This product conforms to the applicable requirements of both CDRH 21 CFR 1040 and EN 60825-1 at the date of manufacture.

For installation, use and maintenance, it is not necessary to open the device.



Do not attempt to open or otherwise service any components in the optics cavity. Opening or servicing any part of the optics cavity by unauthorized personnel may violate laser safety regulations. The optics system is a factory only repair item.



Use of controls or adjustments or performance of procedures other than those specified herein may result in exposure to hazardous visible laser light.

The product utilizes a low-power laser diode. Although staring directly at the laser beam momentarily causes no known biological damage, avoid staring at the beam as one would with any very strong light source, such as the sun. Avoid shining laser light into any person's eye, even through reflective surfaces such as mirrors, etc.



Use of optical systems with the scanner will increase eye hazard. Optical instruments include binoculars, microscopes, eye glasses and magnifying glasses.

ITALIANO

Le seguenti informazioni vengono fornite dietro direttive delle autorità internazionali e si riferiscono all'uso corretto del terminale.

NORMATIVE STANDARD PER LA SICUREZZA LASER

Questo prodotto risulta conforme alle normative vigenti sulla sicurezza laser alla data di produzione: CDRH 21 CFR 1040 e EN 60825-1.

Non si rende mai necessario aprire l'apparecchio per motivi di installazione, utilizzo o manutenzione



Non tentare di accedere allo scomparto contenete i componenti ottici o di farne la manutenzione.

L'apertura dello scomparto, o la manutenzione di qualsiasi parte ottica da parte di personale non autorizzato, potrebbe violare le norme della sicurezza. Il sistema ottico può essere riparato solamente alla fabbrica.



L'utilizzo di procedure o regolazioni differenti da quelle descritte nella documentazione può provocare un'esposizione pericolosa a luce laser visibile. Il prodotto utilizza un diodo laser a bassa potenza. Sebbene non siano noti danni riportati dall'occhio umano in seguito ad una esposizione di breve durata, evitare di fissare il raggio laser così come si eviterebbe qualsiasi altra sorgente di luminosità intensa, ad esempio il sole. Evitare inoltre di dirigere il raggio laser negli occhi di un osservatore, anche attraverso superfici riflettenti come gli specchi.



L'uso di strumenti ottici assieme allo scanner può aumentare il pericolo di danno agli occhi. Tali strumenti ottici includono cannocchiali, microscopi, occhiali e lenti di ingrandimento.

DEUTSCH

Die folgenden Informationen stimmen mit den Sicherheitshinweisen überein, die von internationalen Behörden auferlegt wurden, und sie beziehen sich auf den korrekten Gebrauch vom Terminal.

NORM FÜR DIE LASERSICHERHEIT

Dies Produkt entspricht am Tag der Herstellung den gültigen EN 60825-1 und CDRH 21 CFR 1040 Normen für die Lasersicherheit.

Es ist nicht notwendig, das Gerät wegen Betrieb oder Installations-, und Wartungs-Arbeiten zu öffnen.



Unter keinen Umständen darf versucht werden, die Komponenten im Optikhohlraum zu öffnen oder auf irgendwelche andere Weise zu warten. Das Öffnen bzw. Warten der Komponenten im Optikhohlraum durch unbefugtes Personal verstößt gegen die Laser-Sicherheitsbestimmungen. Das Optiksystem darf nur werkseitig repariert werden.



Jegliche Änderungen am Gerät sowie Vorgehensweisen, die nicht in dieser Betriebsanleitung beschreiben werden, können ein gefährliches Laserlicht verursachen.

Der Produkt benutzt eine Laserdiode. Obwohl zur Zeit keine Augenschäden von kurzen Einstrahlungen bekannt sind, sollten Sie es vermeiden für längere Zeit in den Laserstrahl zu schauen, genauso wenig wie in starke Lichtquellen (z.B. die Sonne). Vermeiden Sie es, den Laserstrahl weder gegen die Augen eines Beobachters, noch gegen reflektierende Oberflächen zu richten.



Die Verwendung von Optiksystemen mit diesem Scanner erhöht die Gefahr einer Augenbeschädigung. Zu optischen Instrumenten gehören unter anderem Ferngläser, Mikroskope, Brillen und Vergrößerungsgläser.

FRANÇAIS

Les informations suivantes sont fournies selon les règles fixées par les autorités internationales et se réfèrent à une correcte utilisation du terminal.

NORMES DE SECURITE LASER

Ce produit est conforme aux normes de sécurité laser en vigueur à sa date de fabrication: CDRH 21 CFR 1040 s et EN 60825-1.

II n'est pas nécessaire d'ouvrir l'appareil pour l'installation, l'utilisation ou l'entretien.



Ne pas essayer d'ouvrir ou de réparer les composants de la cavité optique. L'ouverture de la cavité optique ou la réparation de ses composants par une personne non qualifiée peut entraîner le nonrespect des règles de sécurité relatives au laser. Le système optique ne peut être réparé qu'en usine.



L'utilisation de procédures ou réglages différents de ceux donnés ici peut entraîner une dangereuse exposition à lumière laser visible.

Le produit utilise une diode laser. Aucun dommage aux yeux humains n'a été constaté à la suite d'une exposition au rayon laser. Eviter de regarder fixement le rayon, comme toute autre source lumineuse intense telle que le soleil. Eviter aussi de diriger le rayon vers les yeux d'un observateur, même à travers des surfaces réfléchissantes (miroirs, par exemple).



L'utilisation d'instruments optiques avec le scanneur augmente le danger pour les yeux. Les instruments optiques comprennent les jumelles, les microscopes, les lunettes et les verres grossissants.

ESPAÑOL

Las informaciones siguientes son presentadas en conformidad con las disposiciones de las autoridades internacionales y se refieren al uso correcto del terminal.

NORMATIVAS ESTÁNDAR PARA LA SEGURIDAD LÁSER

Este aparato resulta conforme a las normativas vigentes de seguridad láser a la fecha de producción: CDRH 21 CFR 1040 y EN 60825-1.

No es necesario abrir el aparato para la instalación, la utilización o la manutención.



No intente abrir o de ninguna manera dar servicio a ninguno de los componentes del receptáculo óptico. Abrir o dar servicio a las piezas del receptáculo óptico por parte del personal no autorizado podría ser una violación a los reglamentos de seguridad. El sistema óptico se puede reparar en la fábrica solamente.



La utilización de procedimientos o regulaciones diferentes de aquellas describidas en la documentación puede causar una exposición peligrosa a la luz láser visible. El aparato utiliza un diodo láser a baja potencia. No son notorios daños a los ojos humanos a consecuencia de una exposición de corta duración. Eviten de mirar fijo el rayo láser así como evitarían cualquiera otra fuente de luminosidad intensa, por ejemplo el sol. Además, eviten de dirigir el rayo láser hacia los ojos de un observador, también a través de superficies reflectantes como los espejos.



El uso de sistemas ópticos con el escáner aumentará el riesgo de daños oculares. Los instrumentos ópticos incluyen binoculares, microscopios, lentes y lupas.

LED Class

LED illuminators integrated in the 1D and 2D imager are classified as "EXEMPT RISK GROUP" according to IEC62471.

Marking and European Economic Area (EEA) ⊂ €

In radio systems configured with mobile computers and access points, the frequencies to be used must be allowed by the spectrum authorities of the specific country in which the installation takes place. Be absolutely sure that the system frequencies are correctly set to be compliant with the spectrum requirements of the country.

The Radio modules used in this product automatically adapt to the frequencies set by the system and do not require any parameter settings.

Simplified EU Declaration of Conformity

Hereby, Datalogic S.r.l. declares that the radio equipment type SKORPIO X4 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.datalogic.com.

Statement of Compliance

cs	Datalogic S.r.I. tímto prohlašuje, že tento Skorpio X4 je ve shodě
Česky	se základními požadavky a dalšími příslušnými ustanoveními
[Czech]	směrnice 2014/53/EU - 2011/65/EU.
da	Undertegnede Datalogic S.r.l. erklærer herved, at følgende udstyr
Dansk	Skorpio X4 overholder de væsentlige krav og øvrige relevante krav
[Danish]	i direktiv 2014/53/EU - 2011/65/EU.
de Deutsch [German]	Hiermit erklärt Datalogic S.r.l., dass sich das Gerät Skorpio X4 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2014/53/EU - 2011/65/EU befindet.
et Eesti [Estonian]	Käesolevaga kinnitab Datalogic S.r.l. seadme Skorpio X4 vastavust direktiivi 2014/53/EU - 2011/65/EU põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
es Español [Spanish]	Por medio de la presente Datalogic S.r.l. declara que el Skorpio X4 cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU - 2011/65/EU.
el	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Datalogic S.r.Ι. ΔΗΛΩΝΕΙ ΟΤΙ Skorpio X4
Ελληνική	ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ
[Greek]	ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU - 2011/65/EU.

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fr Français [French]	Par la présente Datalogic S.r.l. déclare que l'appareil Skorpio X4 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU - 2011/65/EU.
it	Con la presente Datalogic S.r.l. dichiara che questo Skorpio X4 è
Italiano	conforme ai requisiti essenziali ed alle altre disposizioni
[Italian]	pertinenti stabilite dalla direttiva 2014/53/EU - 2011/65/EU.
Latviski [Latvian]	Ar šo Datalogic S.r.l. deklarē, ka Skorpio X4 atbilst Direktīvas 2014/53/EU - 2011/65/EU būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Siuo Datalogic S.r.l. deklaruoja, kad šis Skorpio X4 atitinka esminius reikalavimus ir kitas 2014/53/EU - 2011/65/EU Direktyvos nuostatas.
nl	Hierbij verklaart Datalogic S.r.l. dat het toestel Skorpio X4 in
Nederlands	overeenstemming is met de essentiële eisen en de andere
[Dutch]	relevante bepalingen van richtlijn 2014/53/EU - 2011/65/EU.
mt	Hawnhekk, Datalogic S.r.I., jiddikjara li dan Skorpio X4 jikkonforma
Malti	mal-htigijiet essenzjali u ma provvedimenti ohrajn relevanti li
[Maltese]	hemm fid-Dirrettiva 2014/53/EU - 2011/65/EU.
hu	Alulírott, Datalogic S.r.l. nyilatkozom, hogy a Skorpio X4 megfelel a
Magyar	vonatkozó alapvető követelményeknek és az 2014/53/EU -
[Hungarian]	2011/65/EU irányelv egyéb előírásainak.
pl	Niniejszym Datalogic S.r.l. oświadcza, że Skorpio X4 jest zgodny z
Polski	zasadniczymi wymogami oraz pozostałymi stosownymi
[Polish]	postanowieniami Dyrektywy 2014/53/EU - 2011/65/EU.
pt Português [Portuguese]	Datalogic S.r.I. declara que este Skorpio X4 está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU - 2011/65/EU.
sl	Datalogic S.r.l. izjavlja, da je ta Skorpio X4 v skladu z bistvenimi
Slovensko	zahtevami in ostalimi relevantnimi določili direktive 2014/53/EU
[Slovenian]	- 2011/65/EU.

Safety and Regulatory Information

Slovensky [Slovak]	Datalogic S.r.I. týmto vyhlasuje, že Skorpio X4 splňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EU - 2011/65/EU.
fi Suomi [Finnish]	Datalogic S.r.I. vakuuttaa täten että Skorpio X4 tyyppinen laite on direktiivin 2014/53/EU - 2011/65/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
sv Svenska [Swedish]	Härmed intygar Datalogic S.r.l. att denna Skorpio X4 står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU - 2011/65/EU.

Information for the User

Restrictions of use in all EU Countries. This device is restricted to indoor use when operated in the 5.15 to 5.25 GHz frequency range.

FCC/IC Labeling

HandHeld variants	Pistol Grip variants	
FCC ID: U4GSX4WB	FCC ID: U4GSX4WB	
IC: 3862E-SX4WB	IC: 3362E-SX4WB	
HVIN: SX4 WB HH	HVIN: SX4 WB GUN	

FCC Compliance

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.

NOTICE:

This device is restricted to indoor use when operated in the 5.15 to 5.25 GHz frequency range.

Changes or modifications made to this equipment not expressly approved by Datalogic S.r.l. may void the FCC authorization to operate this equipment.

NOTE:

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.

ISED Compliance

NOTICE:

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 harmful interference, and

(2)this device must accept any interference received, including interference that may cause undesired operation.

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'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAUTION:

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

AVERTISSEMENT:

(i) les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux; (ii) les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiofrequency Radiation Exposure Information

This device was tested for handheld and body-worn conditions, according to international Standards covering human exposure to electromagnetic fields from radio devices.

More information about the relevant Standards for SAR measurement methods and procedures may be found in the CE DoC included in the product user manual available at www.datalogic.com website and at the FCC public listing www.fcc.gov under the FCC IDs specified in the FCC/IC labeling section.

Europe

This device is compliant with SAR limits for general population/uncontrolled exposure specified in Council Recommendation 1999/519/EC Annex II.

US and Canada

For body worn operation, this device has been tested and meets the FCC/ISED RF exposure guidelines for use with an accessory that contains no metal and the positions the handset a minimum of 0 cm from the body. Use of other enhancements may not ensure compliance with FCC/ISED RF exposure guidelines.

Cet équipement peut être installé et utilisé à une distance minimale de 0 cm entre le radiateur et votre corps.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, expect those approved under the filing.

Radio Technologies and Frequency Bands

SKORPIO X4 incorporates the following radio technologies and supports the corresponding Frequencies and Radio-Frequency transmitted power, as specified below:

Europe

Radio Technology	Frequency Bands	Radio-Frequency Transmitted Power
 WLAN IEEE 802.11b/g/n SISO 20MHz channels bandwidth (HT-20) MIMO support 20MHz channels bandwidth (HT-20) 	2.4GHz Frequency Bands: 2.412 – 2.472 MHz	19.45 dBm
WLAN IEEE 802.11a/n SISO 20MHz and 40Mhz channels band- width (HT-20 and HT-40)	5GHz Frequency Bands: 5.180 – 5.240 MHz 5.260 – 5.320 MHz 5.500 – 5.700 MHz	19.27 dBm
Bluetooth® V4.0 – EDR/LE	2402-2480Mhz	9.95 dBm

US and Canada

Radio Technology	Frequency Bands
 WLAN IEEE 802.11b/g/n SISO 20MHz channels bandwidth (HT-20) MIMO support 20MHz channels bandwidth (HT-20) 	2.4GHz Frequency Bands: 2.412 – 2.462 MHz
WLAN IEEE 802.11a/n SISO 20MHz and 40Mhz channels bandwidth (HT-20 and HT-40)	5GHz Frequency Bands: 5.180 – 5.240 MHz 5.260 – 5.320 MHz 5.500 – 5.700 MHz 5.735 – 5.825 MHz
Bluetooth® V4.0 – EDR/LE	2402-2480Mhz

WEEE Compliance



Information for the user

At the end of its useful life, the product marked with the crossed out wheeled wastebin must be disposed of separately from urban waste. 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 http://www.datalogic.com.

Informazione per gli utenti

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

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

Information aux utilisateurs

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.

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 http://www.datalogic.com.

Información para el usuario

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

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 http://www.datalogic.com.

Benutzerinformation bezüglich

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

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

NOTES

Reference Documentation

For further information regarding Skorpio X4 refer to the SDK Help on-line.

Support Through the Website

Datalogic provides several services as well as technical support through its website.

Log on to www.datalogic.com and click on the **SUPPORT** link which gives you access to:

Downloads by selecting your product model from the dropdown list in the Search by Product field for specific Data Sheets, Manuals, Software & Utilities, and Drawings;

Repair Program for On-Line Return Material Authorizations (RMAs) plus Repair Center contact information;

Customer Service containing details about Maintenance Agreements;

Technical Support through email or phone.

Warranty Terms and Conditions

The warranty period is 1 year for the device and 90 days for consumables (e.g. battery, power supply, cable etc.) from date of purchase at our company.



Glossary

Access Point

A device that provides transparent access between Ethernet wired networks and IEEE 802.11 interoperable radio-equipped mobile units. Hand-held mobile computers, PDAs or other devices equipped with radio cards, communicate with wired networks using Access Points (AP). The mobile unit (mobile computer) may roam among the APs in the same subnet while maintaining a continuous, seamless connection to the wired network.

Applet

Diminutive form of app (application), it refers to simple, single-function programs that often ship with a larger product. Programs such as Windows' Calculator, File Manager, Control Panel and Notepad are examples of applets.

ASCII

American Standard Code for Information Interchange. A 7 bit-plus-parity code representing 128 letters, numerals, punctuation marks and control characters. It is a standard data transmission code in the U.S.

Barcode

A pattern of variable-width bars and spaces which represents numeric or alphanumeric data in binary form. The general format of a barcode symbol consists of a leading margin, start character, data or message character, check character (if any), stop character, and trailing margin. Within this framework, each recognizable symbology uses its own unique format.

Bit

Binary digit. One bit is the basic unit of binary information. Generally, eight consecutive bits compose one byte of data. The pattern of 0 and 1 values within the byte determines its meaning.

Bluetooth®

A standard radio technology using a proprietary protocol. The onboard Bluetooth® module in the device is compatible with the 2.1 protocol with Enhanced Data Rate (EDR).

Boot

The process a computer goes through when it starts. During boot, the computer can run self-diagnostic tests and configure hardware and software.

Byte

On an addressable boundary, eight adjacent binary digits (0 and 1) combined in a pattern to represent a specific character or numeric value. Bits are numbered from the right, 0 through 7, with bit 0 the low-order bit. One byte in memory can be used to store one ASCII character.

CDRH

Center for Devices and Radiological Health. A federal agency responsible for regulating laser product safety. This agency specifies various laser operation classes based on power output during operation.

Character

A pattern of bars and spaces which either directly represents data or indicates a control function, such as a number, letter, punctuation mark, or communications control contained in a message.

Decode

To recognize a barcode symbology (e.g., Codabar, Code 128, Code 3 of 9, UPC/EAN, etc.) and convert the content of the barcode scanned from a visual pattern into electronic data.

Density (Barcode Density)

The number of characters represented per unit of measurement (e.g., characters per inch).

Depth of Field (DOF)

The portion of a scene that appears acceptably sharp in the image. Although a lens can precisely focus at only one distance, the decrease in sharpness is gradual on each side of the focused distance, so that within the DOF, the unsharpness is imperceptible under normal viewing conditions.

Dock

A dock is used for charging the terminal battery and for communicating with a host computer, and provides a storage place for the terminal when not in use.

ESD

Electro-Static Discharge

Ethernet

The standard local area network (LAN) access method. A reference to "LAN", "LAN connection" or "network card" automatically implies Ethernet. Defined by the IEEE as the 802.3 standard, Ethernet is used to connect computers in a company or home network as well as to connect a single computer to a cable modem or DSL modem for Internet access.

Firmware

A software program or set of instructions programmed on a hardware device. It provides the necessary instructions for how the device communicates with the other computer hardware. Firmware is typically stored in the flash ROM of a hardware device. While ROM is "read-only memory," flash ROM can be erased and rewritten because it is actually a type of flash memory.

Flash Memory

Non-volatile memory for storing application and configuration files.

Host

A computer that serves other mobile computers in a network, providing services such as network control, database access, special programs, supervisory programs, or programming languages.

IEC

International Electrotechnical Commission. This international agency regulates laser safety by specifying various laser operation classes based on power output during operation.

IEEE 802.11

A set of standards carrying out wireless local area network (WLAN) computer communication in the 2.4, 3.6 and 5 GHz frequency bands. They are created and maintained by the IEEE LAN/MAN Standards Committee.

LAN

Local area network. A radio network that supports data communication within a local area, such as within a warehouse of building.

Laser

Light Amplification by Stimulated Emission of Radiation.The laser is an intense light source. Light from a laser is all the same frequency, unlike the output of an incandescent bulb. Laser light is typically coherent and has a high energy density.

Light Emitting Diode (LED)

A low power electronic light source commonly used as an indicator light. It uses less power than an incandescent light bulb but more than a Liquid Crystal Display (LCD).

Liquid Crystal Display (LCD)

A display that uses liquid crystal sealed between two glass plates. The crystals are excited by precise electrical charges, causing them to reflect light outside according to their bias. They use little electricity and react relatively quickly. They require external light to reflect their information to the user.

MIL

1 mil = 1 thousandth of an inch.

Null Modem Cable

RS-232 serial cable where the transmit and receive lines are crosslinked. In some cables there are also handshake lines crosslinked. In many situations a straight through serial cable is used, together with a null modem adapter. The adapter contains the necessary crosslinks between the signals.

One shot key

Pressing a one shot key actives the state. The state remains active until any other key is pressed. If you hold down a one shot state key and you press another key the state will remain active until you release the one-shot key.

Pairing

A Bluetooth® pairing occurs when two Bluetooth® devices agree to communicate with each other and establish a connection.

Parameter

A variable that can have different values assigned to it.

RAM

Random Access memory. Data in RAM can be accessed in random order, and quickly written and read.

Resolution

The narrowest element dimension which is distinguished by a particular reading device or printed with a particular device or method.

RF

Radio Frequency.

Scanner

An electronic device used to scan barcode symbols and produce a digitized pattern that corresponds to the bars and spaces of the symbol. Its three main components are:

- Light source (laser or photoelectric cell) illuminates a barcode.
- Photodetector registers the difference in reflected light (more light reflected from spaces).

 Signal conditioning circuit - transforms optical detector output into a digitized bar pattern.

SDK

Software Development Kit.

Symbol

A scannable unit that encodes data within the conventions of a certain symbology, usually including start/stop characters, quiet zones, data characters and check characters.

Symbology

The structural rules and conventions for representing data within a particular barcode type (e.g. UPC/EAN, Code 39, PDF417, etc.).

Toggle key

Pressing a toggle key activates the state. The state remains active until the toggle key is pressed again.

USB

Universal Serial Bus. Type of serial bus that allows peripheral devices (disks, modems, printers, digitizers, data gloves, etc.) to be easily connected to a computer. A "plug-and-play" interface, it allows a device to be added without an adapter card and without rebooting the computer (the latter is known as hot-plugging). The USB standard, developed by several major computer and telecommunications companies, supports data-transfer speeds up to 12 megabits per second, multiple data streams, and up to 127 peripherals.

Visible Laser Diode (VLD)

A solid state device which produces visible laser light.

WLAN

A Wireless Local Area Network links devices via a wireless distribution method (typically spread-spectrum or OFDM radio), and usually provides a connection through an access point to the wider internet. This gives users the mobility to move around within a local coverage area and still be connected to the network.

WPAN

A Wireless Personal Area Network is a personal area network - a network for interconnecting devices centered around an individual person's workspace - in which the connections are wireless. Typically, a wireless personal area network uses some technology that permits communication within about 10 meters - in other words, a very short range.

Glossary





COLATACO

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