Ultimate Performance!

falcon™ X3

DATALOGIC™ MOBILE
Uniting functionality and performance to ergonomics!
Ergonomic and rugged
Real time data capture
Easy to deploy and manage
Falcon™ X3 fits a variety of Retail in Store environments especially larger store formats. These include Mass and General Merchandisers, Warehouse Clubs, Do It Yourself, and Grocery. The Falcon™ X3 is primarily used by the retail store associate.

Retail associates carry out a variety of inventory accountability and communications tasks. Stock counts for year-end inventory, spot checks on items with high shrink, and receiving activities require the highest possible speed and accuracy to complete the activity in the shortest possible time. Picking, put away, price verification and price adjustments require communication with the host system for associate direction. Voice communications and online resources help the associate quickly track down answers to customer questions.

The new Datalogic Falcon™ X3 mobile computer delivers the ultimate in ruggedness, ergonomics, computing and data capture technologies. The Falcon’s Summit IEEE 802.11 a/b/g radio with CCX v4 certification from Cisco ensures the highest level of security for PCI compliance. Datalogic innovations include the patented good read feedback to better blend with the retail floor mood and the addition of a camera for promotional end cap verification. Falcon™ X3 delivers rugged construction, laser and image data capture, along with real time communications in a product that is effortless to develop for, deploy and manage.
Warehousing

Falcon™ X3 - fits a variety of warehouse environments including:
- Distribution centers: retail, wholesale, manufacturing, consumer products, food and beverage
- Manufacturing warehouses: consumer products, automotive, industrial, electronics and pharmaceuticals
- Third party logistics (3PL)

Warehouse users of mobile computers carry out a variety of inventory accountability and communications tasks centred on the receipt and disposition of goods. Receiving start the process as new material arrives at a facility. In some cases, goods will literally be transferred from incoming to outgoing trucks, a function called cross docking. Sorting and put away operations require communication and direction from the host system to ensure the goods are accurately stored for later retrieval. Picking and staging activities kick off the shipping process. Finally stock counts for year-end inventory and cycle counts to verify inventory accuracy must be completed in the shortest possible time.

The new Datalogic Falcon™ X3 mobile computer delivers the ultimate in ruggedness, ergonomics, computing and data capture technologies. Falcon™ X3 options provide a tailored solution for demanding environments needing real time transaction visibility. The Falcon’s Summit IEEE 802.11 a/b/g radio with CCX v4 certification from Cisco ensures seamless roaming in warehouse and logistics environments. Datalogic innovations include the patented good read feedback for error reduction in noisy environments and the addition of a camera for damaged goods documentation. Falcon™ X3 delivers rugged construction, laser and image data capture, along with real time communications in a product that is effortless to develop for, deploy and manage.
Ergonomic and rugged

Overmold reinforced polycarbonate structure survives drops of 1.8 m (6 ft) and seals to an IP64 protection class.

Rubberized seals prevent dust and water intrusion to an IP64 protection class.

Crystal clear, 3.5” QVGA color display.

Contoured shape promotes single handed use.

Reserved label area for customer identifiers.

Single piece battery.

Pistol grip handle with finger rest for balance and control.

Status LEDs: power, scan and keyboard status.

Numeric keyboard & full alpha-numeric keyboard.

Polycarbonate key caps.

Contoured shape promotes single handed use.

Reserved label area for customer identifiers.
Real time data capture

- Imager
- Laser Scanner
- Auto Ranging Laser (XLR)
- New decoding symbology GS1 DataBar™

Green Spot™ Technology

Memory: 256 MB RAM / 256 MB Flash with MicroSD memory expansion

Summit IEEE 802.11a/b/g radio with diversity antenna and CCX v4 security

Bluetooth® wireless Communications 2.0 EDR for simultaneous connections with lower power consumption

3 MPixel Camera with Flash

Power³ parallel computer architecture of XScale™ PXA310; Cortex-M3, 256 MB RAM and 256 MB Flash

Main connector with secure connection to serial, USB, or audio
Wavelink Avalanche
Prelicensed Wavelink Avalanche, Mobility Center or Site Edition, streamlines device deployment, site management and maintenance. Scan to Configure functionality configures devices by simply scanning a set of customized barcodes.

SDK™
Windows SDK™, an open source software development kit (SDK), aids in creating applications for Windows operating systems or alternative environments like Java Virtual Machine. The SDK provides a set of libraries allowing easy application development using C++ and .NET programming languages.

Datalogic Configuration Utility
Datalogic Configuration Utility is an easy to use PC based application to set up and configure the mobile device.

Datalogic Desktop Utilities
Datalogic Desktop Utility restricts computer access according to business need. Limitations can be placed on Internet Explorer and the desktop.

Datalogic Firmware Utility
The Datalogic Firmware Utility upgrades mobile computer firmware.

Wavelink Terminal Emulation – Prelicensed
Prelicensed Wavelink’s Terminal Emulation (TE), the industry standard, extends mission-critical applications resident on mainframe systems out to mobile workers. TE is a comprehensive solution for accessing and managing connections to applications resident on host systems using 5250, 3270, VT and HP emulation.
The Falcon™ X3 provides twelve different main models and a wide variety of accessories to tailor the Falcon™ X3 to the application needs. The main product offers two form factors, two keyboards, three capture technologies and two operating systems. Accessories provide a wide arrange of options for charging and communication.

### Main model options

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>Keyboard</th>
<th>Scanner</th>
<th>Operating System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand Held</td>
<td>Numeric 29 Key</td>
<td>High Performance Laser with Green Spot</td>
<td>Windows CE 6 release 3 delivers a streamlined real-time operating system that maximizes storage space and minimizes device start up times. CE 6 comes with Internet Explorer.</td>
</tr>
<tr>
<td>Pistol Grip</td>
<td>Alpha Numeric 52 Key</td>
<td>2D Imager with Green Spot</td>
<td>Windows Mobile 6.5 user interface minimizes training needs while offering application portability across products. WM 6.5 comes with Microsoft Office Mobile applications like Word Mobile, Excel Mobile, and Internet Explorer Mobile.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Auto Ranging Laser (XLR)</td>
<td></td>
</tr>
</tbody>
</table>

### Accessories

A comprehensive set of accessories complete the offer:

- Single Slot Dock
- Single Slot Dock: Ethernet - Modem Module
- Four Slot Dock: Ethernet - Charger
- Four Slot Battery Charger
- High Capacity Battery
- Holster
- Powered Mobile Dock
- Soft Case

### Additional software

**Software tools make Falcon™ X3 fit into your business**

**Industrial Browser**
Industrial Browser is a web-based application offering businesses significant advantages in terms of simplified application development together with enhanced on-screen data representation.

**Help Desk**
Remote Control allows administrators to remotely diagnose and remedy both applications and device settings.

**Security**
SecurePlus and Certificate Manager to protect sensitive data when a device is lost or stolen.

**Push to Talk**
Wavelink Communicator is an optional plug-in for Avalanche, providing 100% client-side push-to-talk capabilities.

**Voice Picking**
Speakeasy or VoCE allows a two-way dialogue between your warehouse management system and workers, virtually eliminating the need to type data into a mobile device.

**Development**
MCL-Collection™ is a robust set of integrated tools designed to develop, debug and deploy Mission Critical hand-held device applications.
Our EASEOFCARE Service Program ensures the most cost effective way to protect your investment in your chosen Datalogic Mobile device. Each of our EASEOFCARE Service Level options will lower the Total Cost of Ownership (TCO) inherent in all mobile devices by minimizing downtime and service costs, plus maximizing operator productivity. One can also choose from 1, 3 or 5 year coverage.

**EASEOFCARE LEVEL 1**
**Overnight Replacement Comprehensive**
- Next business day product replacement
- Datalogic owned replacement pool
- Shipping charges paid both ways
- Incidental damage covered
- Wear and tear, component and parts failures covered
- Some accessories, like battery doors, stylus, hand straps are replaced when damaged and shipped together with the unit
- Wavelink® Avalanche™ software maintenance
- Duration: 3 or 5 years at time of product purchase, or 1 year continuous coverage

**EASEOFCARE LEVEL 2**
**2 Day Comprehensive**
- 2 business day repair turnaround
- Shipping charges paid both ways
- Incidental damage covered
- Wear and tear, component and parts failures covered
- Some accessories, like battery doors, stylus, hand straps are replaced when damaged and shipped together with the unit
- Wavelink® Avalanche™ software maintenance
- Duration: 1, 3 or 5 years at time of product purchase, or 1 year continuous coverage

**EASEOFCARE LEVEL 3**
**5 Day**
- 5 business day repair turnaround
- Courier charges paid both ways
- Factory defects covered
- Wavelink® Avalanche™ software maintenance
- Duration: 1, 3 or 5 years at time of product purchase, or 1 year continuous or non-continuous coverage
## Specifications

### > Physical Characteristics

| Dimensions          | Hand held: 225 x 88 x 55 mm, 64 x 40 mm at keyboard (8.9 x 3.5 x 2.2 in)  
|                    | Pistol grip: 225 x 88 x 168 mm (8.9 x 3.5 x 6.6 in)  
| Weight             | Hand held: 626 g (22.1 oz)  
|                    | Pistol grip: 699 g (24.6 oz)  
| Display            | Transflective TFT daylight readable color display, 240 x 320 pixels, 3.5 inch diagonal, 64K colors, 200 nit backlight, touch screen  
| Audio Keyboard     | Loudspeaker; Microphone  
| Operating Temperature | -20ºC to 60ºC (-4ºF to 122ºF)  
| Storage Temperature | -40ºC to +70ºC (-40ºF to 158ºF)  
| Drop Resistance    | Withstands 18 drops from 1.8 m (6 ft) onto concrete  
| Environmental Sealing | IP64 standard for water and dust resistance  

### > System

| Operating System   | Microsoft Windows CE 6.0 with Microsoft WordPad and Internet Explorer 6.0  
|                    | Microsoft Windows Mobile 6.5 with Mobile tools: Outlook Mobile, Word Mobile, Excel Mobile, Powerpoint Mobile, One Note Mobile and Internet Explorer Mobile 6.0  
| Microprocessor     | XScale™ PXA310 @ 624 MHz  
| Coprocessor       | Cortex-M3, 32 bit @ 72 MHz  
| RAM Memory         | 256 MB  
| Flash Memory       | MicroSD card slot compatible with SDHC cards, user-accessible  
| Real-Time Clock    | Time and date stamping under software control  
| Power Supply       | Removable battery pack with rechargeable Li-ion batteries; 3.7 V 5000 mAh (18.5 Watt hours)  

### > Communications

| Interfaces         | Main connector with USB Host, USB Client, RS232 up to 115.2 Kbps, and audio headset support  
|                    | Summit IEEE 802.11 a/b/g  
|                    | Frequency range: Country dependent, typically 2.4 GHz and 5.2 GHz  
|                    | Cisco Compatible CCX v4 Security  
| Local Area Network (LAN) | Bluetooth® Wireless Technology IEEE 802.15 Class 2 with EDR  
| Personal Area Network (PAN) | E2E Public Key Infrastructure (PKI)  

### > Capture

| Laser Characteristics | High Performance Laser (HPL) with Green Spot, Auto Ranging Laser (XLR)  
|                       | 40 ± 6 scan/sec  
| Scanning Rate         | 0.20 mm / 7.5 mils  
| Minimum Resolution    | HPL: 7 - 91 cm (3 - 36 inches) depending on bar code density  
| Depth of Field        | XLR: Non reflective labels from 18 - 393 cm (7 to 154 in) depending on bar code density; Reflective labels to 1376 cm (542 in) All ranges dependent bar code size and density, Near range on reflective bar codes determined by degree of reflectivity and width of bar code  
| Bar Codes             | GS1 Databar, EAN/UPC, Code 39, Code 32, 2/5 Codes, Codabar, Code 128, EAN128, MSI, Code 93  
| Laser Classification  | VLD - Class 2/II EN 60825-1/CDHR  
| Imager Characteristics | Wide Aspect Imager with Green Spot  
| Scanning Rate         | 60 frames/sec maximum  
| Minimum Resolution    | Linear codes at 4 mils; 2D codes at 5 mils  
| Depth of Field        | 6 to 40 cm (2 to 16 in), depending on bar code size and density  
| Bar Codes             | PDF417, Micro PDF, Datamatrix, QR Code, Micro QR, Maxicode, Aztec, Postnet, Planet, Japan Post, Aztec, Australia Post, KIX Code, Royal Mail Intelligent Mail and UPU FICS, GS1 Databar, EAN/UPC, Code 32, Code 39, 2/5 Codes, Codabar, Code 128, EAN128, MSI, Code 93, ISBT 128, Bookland EAN and ISSN EAN  
| Laser Classification  | CDRH/IEC Class II  
| LED Classification    | E2E Public Key Infrastructure (PKI)  
| Camera Characteristics | 3 Mega pixel color with autofocus and LED flash  
| Image Formats         | BMP, JPEG  

### Software

#### Development
- Datalogic Windows SDK™
- Wavelink® Studio™
- MCL-Collection™
- Java Virtual Machine

#### Configuration & Maintenance
- Wavelink Avalanche® MC prelicensed
- Wavelink Avalanche® SE prelicensed
- Avalanche Remote Control™
- Datalogic Firmware Utility
- Datalogic Desktop Utility
- Datalogic Configuration Utility

#### Terminal Emulation
- Wavelink® Industrial Browser™
- Wavelink® Terminal Emulation™ prelicensed

#### Security
- Avalanche CE Secure™
- Wavelink® Certificate Manager

#### Applications
- Vo-CE™ (voice recognition)
- Wavelink® Communicator (push to talk)
- Wavelink® SpeakEasy (voice recognition)
- Pal Application Library prelicensed