

# falcon™ X3

## HAND HELD/PISTOL GRIP

### Datalogic **Power<sup>3</sup> HIGHLIGHTS**

#### Ultimate Performance!

#### > REAL TIME DATA CAPTURE

- > Capture with a high performance laser scanner with Green Spot, an auto ranging laser (XLR) scanner, or a 2D imager with Green Spot combined with a 3 mega pixel color camera
- > Communicate over a Summit 802.11 a/b/g radio with CCX v4 certification for security and seamless roaming or through wired standards including USB, RS232, modem and Ethernet
- > Parallel computer architecture combines a PXA 310 and Cortex-M3 processors with a base memory package of 256 MB RAM / 256 MB Flash and choice of Microsoft Windows operating systems: Windows Mobile or CE

#### > ERGONOMIC & RUGGED

- > Ergonomic hand held and pistol grip form factors balance a 3.5 inch display, full keyboards and a one piece 5,000 mAh battery
- > Functional rubberized plastic enclosures survive daily abuse and trauma from drops to concrete and exposure to water and dust
- > Users feel the full shift difference of oversized numeric and alphanumeric back lit keyboards, a crystal clear display and an arched pistol grip handle with ergonomic trigger

#### > EASY & INTUITIVE

- > Develop using the Datalogic Mobile industry leading software development kit for the ultimate in device control
- > Deploy quickly with Datalogic Utilities, Scan to Configure and Wavelink® Terminal Emulation
- > Direct the installation, maintenance and management using Wavelink® Avalanche console for the site or enterprise

**New**



## FEATURES

- > Datalogic's trademark ergonomics balance a 3.5" display and full shift battery
- > Ruggedized with 1.8 m (6 ft) drop to concrete resistance and IP64 protection class
- > High performance laser with Green Spot
- > Wide aspect 2D imager with Green Spot
- > Auto Ranging Laser
- > Optional 3Mpixel autofocus camera
- > CCX v4 certified 802.11 a/b/g radio
- > Bluetooth® wireless communications
- > Microsoft Windows Mobile 6.5 or Windows CE 6.0 operating system
- > Parallel processor architecture combines an XScale™ PXA 310 and a Cortex-M3 processor
- > 256 MB RAM / 256 MB Flash memory
- > User-accessible MicroSD memory slot
- > Wavelink® Avalanche® device management and Terminal Emulation prelicensed
- > Datalogic Utilities and Software Development Kit
- > Pal Application Library prelicensed

## APPLICATIONS

- > **Warehouse and Distribution Centers** - Retail, Wholesale, Manufacturing, Automotive/Industrial, Electronics, Food/Beverage, Consumer Products, Pharmaceutical, Third Party Logistics (3PL)
- > Receiving
- > Cross docking
- > Put Away
- > Staging
- > Voice picking
- > Shipping
- > Cycle Count
- > Inventory
- > Shelf replenishment
- > Price management
- > Order entry
- > Assisted sales
- > Planogram verification
- > Damaged goods documentation



# 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, 2.5 x 1.6 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	Loudspeaker; Microphone
KEYBOARD	Polycarbonate hard cap keyboards with backlight 29 key numeric or 52 key alpha numeric with discrete navigation
OPERATING TEMPERATURE	-20°C to 50°C (-4°F to 122°F)
STORAGE TEMPERATURE	-40°C to +70°C (-40°F to 158°F)
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
SYSTEM RAM MEMORY	256 MB
SYSTEM FLASH MEMORY	256 MB
EXPANSION SLOTS	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)

## > COMMUNICATION

INTERFACES	Main connector with USB Host, USB Client, RS232 up to 115.2 Kbps, and audio headset support
LOCAL AREA NETWORK (LAN)	Summit IEEE 802.11 a/b/g Frequency range: Country dependent, typically 2.4 GHz and 5.2 GHz
PERSONAL AREA NETWORK (PAN)	Cisco Compatible CCX v4 Security Bluetooth® Wireless Technology IEEE 802.15 Class 2 with EDR

## > CAPTURE

### LASER CHARACTERISTICS

SCANNING RATE  
MINIMUM RESOLUTION  
DEPTH OF FIELD

BAR CODES

### LASER CLASSIFICATION

### IMAGER CHARACTERISTICS

SCANNING RATE  
MINIMUM RESOLUTION  
DEPTH OF FIELD

BAR CODES

### LASER CLASSIFICATION

### LED CLASSIFICATION

### CAMERA CHARACTERISTICS

IMAGE FORMATS

High Performance Laser (HPL) with Green Spot, Auto Ranging Laser (XLR)  
40 ± 6 scan/sec  
0.20 mm / 7.5 mils  
HPL: 8 - 91 cm (2.5 - 36 inches) depending on bar code density  
XLR: Non reflective labels from 5 - 243 cm (2 to 180 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  
GS1 Databar, EAN/UPC, Code 39, Code 32, 2/5 Codes, Codabar, Code 128, EAN128, MSI, Code 93  
VLD - Class 2/II EN 60825-1/CDHR

Wide Aspect Imager with Green Spot  
60 frames/sec maximum  
Linear codes at 4 mils; 2D codes at 5 mils  
4 to 40 cm (1.6 to 15.5 in), depending on bar code size and density  
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  
CDRH/IEC Class II  
IEC Class 1M

3 Mega pixel color with autofocus and LED flash  
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

Wavelink CE Secure  
Wavelink Certificate Manager

### APPLICATIONS

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

# ACCESSORIES



Caution: Laser Radiation - do not stare into beam



Single Slot Dock with Spare Battery Slot  
(Opt. Ethernet or Modem Connection)



Four Slot Dock  
(Optional Ethernet Connection)



Multi Battery Charger



Soft case and Holster

Specifications are subject to change. Please check [www.mobile.datalogic.com](http://www.mobile.datalogic.com) for the latest product specifications. For information on product use limitations, please refer to the user manual available at [www.mobile.datalogic.com/manual](http://www.mobile.datalogic.com/manual)