FALCON™ X3+

DATALOGIC

REAL-TIME DATA CAPTURE

Capture bar codes while exploiting both 1D laser and 2D imaging technologies with Standard and Extra Long Range versions available. A full VGA display and a 3.1 Megapixel color camera are featured in all WEHH Operating System configurations.

Communicate over a Laird/Summit 802.11 a/b/g/n radio with CCX v4 certification for security and seamless roaming, or through wired standards including USB Hi-Speed, RS-232, Modem and Ethernet.

Powerful parallel computer architecture combines PXA310 806 MHz and Cortex-M3 processors, increased Flash memory up to 1 GB, and a choice of Microsoft® Windows® operating systems.

ERGONOMIC & RUGGED

Users feel the full-shift difference of ergonomic handheld and pistol grip form factors to balance a 3.5 inch crystal clear display, full numeric or alphanumeric back-lit keyboards, and a one-piece 5,200 mAh battery.

Rubberized polycarbonate enclosures and a Corning® Gorilla® Glass 3 scan exit window survive daily abuse and trauma from drops to concrete. An IP65 sealing rating ensures ultimate protection against exposure to water and dust.

EASY & INTUITIVE

Develop custom solutions using the industry leading Datalogic Software Development Kit (SDK).

Deploy quickly with Datalogic Utilities, Wavelink® Avalanche® and Wavelink Scan to Configure.

Manage your installed devices using the pre-licensed Wavelink Avalanche, or leverage the included Wavelink Terminal Emulation for your legacy connectivity.

Windows® Embedded Gold Partner

Laird

Wavelink Powered

GREEN SPOT

FEATURES

- Full-shift battery and a choice of 3.5 inch touchscreen displays: QVGA or VGA
- Ruggedized with 1.8 m / 6.0 ft drop to concrete resistance and IP65 sealing rating
- Standard range 1D laser and 2D imager feature Datalogic's patented 'Green Spot' technology for good-read feedback
- Auto-Ranging Laser and Extra Long Range 2D Imager
- Corning Gorilla Glass 3 scan window
- 3.1 Megapixel auto-focus camera on all WEHH models
- CCX v4 certified 802.11 a/b/g/n radio
- Windows Embedded Handheld 6.5 or Windows CE 6.0 Professional operating system
- Parallel processor architecture combines an XScale™ PXA310 806 MHz and a Cortex-M3 processor
- 256 MB RAM / 1 GB Flash memory
- Wavelink Avalanche device management and Terminal Emulation pre-licensed
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

INDUSTRY-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

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TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS

LOCAL AREA NETWORK (LAN)	Laird/Summit IEEE 802.11 a/b/g/n Frequency range: Country dependent, typically 2.4 GHz and 5.2 GHz; Cisco Compatible CCX v4 Security
PERSONAL AREA NETWORK (PAN)	Bluetooth® Wireless Technology IEEE 802.15 Class 2.1 with EDR

DECODING CAPABILITY

1D / LINEAR CODES	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D CODES	Aztec Code, Data Matrix, MaxiCode, Micro QR Code, QR Code
POSTAL CODES	Australian Post, Intelligent Mail, Japan Post, KIX Post; Planet Code, Postnet; Royal Mail Code (RM4SCC)
STACKED CODES	GS1 DataBar Composites, GS1 DataBar Expanded Stacked, GS1 DataBar Stacked, MicroPDF417, PDF417, UPC A/E Composites

ELECTRICAL

BATTERY	Removable battery pack with rechargeable Li-ion batteries; 3.7 V 5200 mAh (19.2 Watt hours)

ENVIRONMENTAL

DROP RESISTANCE	Withstands drops from 1.8 m / 6.0 ft onto concrete and 1500 random drops from 1.0 m / 3.3 ft according to IEC68-2-32 (Method 2)
PARTICULATE AND WATER SEALING	IP65
TEMPERATURE	Operating: -20 to 50 °C /-4 to 122 °F Storage: -30 to 70 °C / -22 to 158 °F

INTERFACES

INTERFACES	Main connector with USB 1.1 Host, USB 2.0 Hi-Speed Client, RS-232 up to 115.2 Kbps Ethernet: via single-slot dock (external module)

PHYSICAL CHARACTERISTICS

AUDIO	Integrated microphone, high-volume speaker
DIMENSIONS	Handheld: 22.5 x 8.8 x 5.5 cm / 8.9 x 3.5 x 2.2 in; 6.4 x 4.0 cm / 2.5 x 1.6 in at keyboard Pistol grip: 22.5 x 8.8 x 16.8 cm / 8.9 x 3.5 x 6.6 in
DISPLAY	Reflective TFT daylight readable color display, 320 x 240 pixels (CE only) or 640 x 480 (WEHH only), 8.9 cm / 3.5 in diagonal, 65K colors, backlight, touch screen
KEYBOARD	Polycarbonate hard cap keyboards with backlight; 29-key numeric or 52-key alphanumeric with discrete navigation
WEIGHT	Handheld: 608.0 g / 21.4 oz Pistol grip: 674.0 g / 23.8 oz

SAFETY AND REGULATORY

AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use. The Users Manual for this product can be referred to for a complete list of certifications.
ENVIRONMENTAL COMPLIANCE	Complies to EU RoHS
LASER CLASSIFICATION	VLD - Class 2 IEC/EN60825-10. Compliant with 21 CFR 1040.10 except for deviations pursuant to laser notice Number 50, dated June 24, 2007
LED CLASSIFICATION	Exempt Risk Group IEC/EN62471

READING PERFORMANCE

HIGH PERFORMANCE LASER (HPL)	Depth of Field: 1 to 83 cm / 1 to 32 in, depending on bar code and density; Scanning Rate: 104 +/- 12 scans/sec.; Good Read Feedback: Datalogic's patented 'Green Spot' technology
LONG-RANGE LASER (XLR)	Depth of Field: Non-reflective labels from 9 to 490 cm / 0.3 to 16.0 ft, depending on bar code density; Reflective labels: up to 1509 cm / 49.5 ft. Near range determined by degree of reflectivity and width of the bar code. All ranges dependent on bar code size and density; Scanning Rate: 31-41 scans/sec. Minimum Resolution: 0.20 mm / 7.5 mils
STANDARD RANGE IMAGER (2D)	Depth of Field: 2 to 60 cm / 1 to 24 in, depending on bar code size and density; Minimum Resolution: Linear codes: 5 mils; 2D codes: 6.7 mils; Good Read Feedback: Datalogic's patented 'Green Spot' technology
EXTRA LONG RANGE IMAGER (2D XLR)	Depth of Field: 17 to 952 cm / 0.6 to 31.3 ft, depending on bar code size and density; Minimum Resolution: Linear codes: 5 mils; 2D codes: 10 mils
SCAN WINDOW	All scan engines feature Corning® Gorilla® Glass 3 window
CAMERA	3.1 Megapixel color with auto-focus and LED flash (WEHH only); Image Formats: BMP, JPEG

SOFTWARE

CONFIGURATION & MAINTENANCE	Wavelink Avalanche pre-licensed, Avalanche Remote Control™, Datalogic Firmware Utility (DFU), Datalogic Desktop Utility (DDU), Datalogic Configuration Utility (DCU)
DEVELOPMENT	Windows SDK, Datalogic SDK (C/C++, .NET, Java); Wavelink Studio®; MCL-Collection™; Java Virtual Machine
APPLICATIONS	Pal Application Library pre-licensed
TERMINAL EMULATION	Wavelink Terminal Emulation pre-licensed, Wavelink Industrial Browser™
SECURITY	Wavelink SecurePlus; Wavelink Certificate Manager
VOICE-PICKING	Vo-CE™; Wavelink Speakeasy™

SYSTEM

OPERATING SYSTEM	Microsoft Windows CE 6.0 Professional with Microsoft WordPad and Internet Explorer® 6.0; Windows Embedded Handheld 6.5 with Office Mobile: Outlook® Mobile, Word Mobile, Excel® Mobile, PowerPoint® Mobile, OneNote® Mobile and Internet Explorer® Mobile 6.0
MICROPROCESSOR	XScale™ PXA310 @ 806 MHz
COPROCESSOR	Cortex-M3, 32 bit
MEMORY	System RAM: 256 MB, System Flash: 1 GB
EXPANSION SLOTS	MicroSD card slot compatible with microSD-HC cards, user-accessible
REAL-TIME CLOCK	Time and date stamping under software control

WARRANTY

WARRANTY	1-Year Factory Warranty

Caution: Laser Radiation - do not stare into beam

ACCESSORIES

Docks

▪ 94A150057
Single Slot Dock w/Spare Battery Charging Slot

▪ 94A150056
Multi-Ethernet Dock Charges 4 terminals and 4 Batteries

▪ 94A151131
Vehicle Dock

Battery Chargers

▪ 94A151137
Multi Battery Charger

▪ 94A151135
Multi Charge Only Dock Charges 4 terminals and 4 Batteries

Cases/Holsters

▪ 94ACC0104
Rubber Boot

▪ 94ACC0047
Standard Softcase with Quick Release Belt Clip

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