ELF™ HEALTHCARE

◇DATALOGIC

ERGONOMIC AND SAFE

The Elf™ HC PDA is specifically developed for healthcare applications with chemical resistant plastics / enclosure designed to withstand daily cleaning with harsh disinfectant solutions. This model capitalizes the much appreciated Elf ergonomics; the shape and form are designed for human hands. The guitar pick and pen stylus provide additional assistance when entering data, even when wearing gloves.

DATA CAPTURE

The Healthcare industry is affected by a growing usage of 2D codes: wristband identification, exam tracking, specimen bar codes, blood bag traceability, breast milk tracking and medication dispensing. For this reason, the Elf HC has been equipped with a fast and reliable 2D imager able to read a wide array of 1D and 2D bar codes, under any condition.

MADE FOR SILENT ENVIRONMENTS

To assure the maximum respect of patients, especially in patient bedside care applications, the Elf HC is equipped with Datalogic's patented 'Green Spot' technology and a vibrating alert. Both provide good-read feedback, avoiding noisy and annoying beeps.

WIRELESS COMMUNICATIONS

Equipped with an 802.11 a/b/g radio, it offers a CCX v4 maximum level of security. A Bluetooth® EDR is also mounted on this model, for fast data transfer to printers or other peripherals, avoiding the cables.

DEVELOP, DEPLOY, DIRECT

The Elf HC model offers the Windows Embedded Handheld 6.5 platform, including the Datalogic SDK and tools for integrating voice, pictures, and video to create or enhance existing software solutions. Wavelink® device management tools make Elf a simple device to both deploy and maintain.

FEATURES

- Chemical resistant plastics / enclosure designed to withstand daily cleaning with harsh disinfectant solutions
- Ergonomic, compact and robust
- Windows Embedded Handheld 6.5
- Laird / Summit embedded 802.11 a/b/g radio for enterprise-class mobile connectivity with CCX V4 certification
- Bluetooth® Wireless Communications 2.0 EDR for simultaneous connections with lower power consumption
- Wide aspect 2D imager with Datalogic's patented 'Green Spot' for good-read feedback
- 3 Megapixel auto-focus Camera with Flash
- 256 MB RAM / 256 MB Flash memory
- XScale™ PXA 310 @ 624 MHz processor
- User-accessible microSD card slot compatible with SDHC cards
- Ruggedized with 1.2 m / 4.0 ft drop to concrete resistance and IP64 protection class
- Wavelink Avalanche® device management
- Pal™ Application Library pre-licensed
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

INDUSTRY-APPLICATIONS

- Patient Bedside Care:
  - Electronic Medical Records (EMR)
  - Bedside Medication Administration
  - Specimen Collection
- Laboratory
  - Specimen Tracking
  - Diagnosis & Tests
  - Blood Bag Traceability
  - Transfusion Tracking
  - Breast Milk Tracking
- Pharmacy
  - Medication Dispensing Process
  - Replenishment and Inventory Management
- Admittance, Accounting & Billing
  - In-patient
  - Out-patient
  - Emergency

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TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS

LOCAL AREA NETWORK (LAN)	Laird / Summit IEEE 802.11 a/b/g Frequency range: Country dependent, typically 2.4 and 5.2 GHz; CCX v4 Security
PERSONAL AREA NETWORK (PAN)	Bluetooth® Wireless Technology IEEE 802.15; Class 2 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, QR Code, UPU FICS, USPS 4CB
POSTAL CODES	Australian Post, Japan Post, KIX Code; PLANET, POSTNET; Royal Mail Code (RM4SCC)
STACKED CODES	MicroPDF417, PDF417

ELECTRICAL

BATTERY	Removable battery pack with rechargeable Li-ion batteries; 3.7 V 3000/5000 mAh; (11.10/18.50 Watt hours)

ENVIRONMENTAL

DROP RESISTANCE	Withstands drops from 1.2 m / 4 ft onto concrete
PARTICULATE AND WATER SEALING	IP64
TEMPERATURE	Operating: -10 to 50 °C / 14 to 122 °F Storage/Transport: -20 to 70 °C / -4 to 158 °F

INTERFACES

INTERFACES	Main connector with USB 1.1 Host, USB 1.1 Client, RS-232 up to 115.2 Kbps Ethernet: via single-slot or multi-slot docks (external modules)

PHYSICAL CHARACTERISTICS

DIMENSIONS	15.7 x 8.1 x 4.2 cm / 6.2 x 3.2 x 1.7 in
DISPLAY	Reflective TFT daylight readable color display, 640 x 480 pixels, 8.9 cm / 3.5 in diagonal, 65K colors, backlight, touch screen
KEYPAD	46-key QWERTY backlit keyboard standard; Side scan keys, push to talk and volume setting
WEIGHT	390.0 g / 13.8 oz with Standard Battery; 424.0 g / 15.0 oz with High-Capacity Battery

READING PERFORMANCE

CAMERA	Resolution: 3 megapixel; Illumination: User controllable flash; Lens: Auto-focus
IMAGING	Scan Rate: 60 frames/sec maximum; Minimum Resolution: Linear codes at 3 mils; 2D codes at 5 mils Image Formats: BMP, JPEG; Resolution: Wide VGA (752 H x 480 V pixels), 256 grayscale
READING INDICATORS	Vibrator, LEDs and Datalogic 'Green Spot'

SAFETY AND REGULATORY

AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use. The Users Guide has the complete list of certifications.
ENVIRONMENTAL COMPLIANCE	Complies to China RoHS; Complies to EU RoHS
EMI / RFI	IEC 60601-1-2; EN 60601-1-2
LASER CLASSIFICATION	CDRH/IEC Class II; VLD - Class 2/II EN 60825-1/CDHR

SOFTWARE

APPLICATIONS	Vo-CE™, Wavelink® SpeakEasy (Voice Recognition) Pal™ Application Library pre-licensed
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
TERMINAL EMULATION	Wavelink Terminal Emulation, Wavelink Industrial Browser, Wavelink ConnectPro™

SYSTEM

COPROCESSOR	ARM-7 32 bit 72 MHz
EXPANSION SLOTS	MicroSD card slot compatible with SDHC cards, user-accessible
MEMORY	System Flash: 256 MB (including Backup directory for permanent storage of user data and programs) System RAM: 256 MB
MICROPROCESSOR	XScale™ PXA310 @ 624 MHz
OPERATING SYSTEM	Windows Embedded Handheld 6.5 with Mobile tools: Outlook, Word Mobile, Excel Mobile, PowerPoint Mobile, One Note Mobile and Internet Explorer Mobile 6.0
REAL-TIME CLOCK	Time and date stamping under software control

CHEMICAL RESISTANT PLASTICS / ENCLOSURE FOR HEALTHCARE

Refer to the device instruction manual for proper cleaning methods when using these chemicals. Disinfectants should not be sprayed or poured onto the device. The device must always be wiped dry after disinfecting.

PRODUCT	CHEMICAL CONTENT
Sani-Cloth® HB, Sani-Cloth® Plus, Super Sani-Cloth®	Quaternary Ammonium Chloride solution
Hepacide Quat II	Virucidal disinfectant cleaner
Alcohol Wipes	70% Isopropyl Alcohol
CaviWipes™	Isopropanol 10-20%; Ethylene Glycol Monobutyl Ether 1-5%
Virex® 256	n-Alkyl Dimethyl Benzyl Ammonium Chloride; Didecyl Dimethyl Ammonium Chloride
409® Glass and Surface Cleaner	n-Alkyl Dimethyl Benzyl Ammonium Chloride; n-Propoxypropanol
Windex® Blue	Isopropyl Alcohol
Clorox® Bleach	Sodium Hypochlorite; Sodium Hydroxide
100% Gentle dish soap and water	

⚠ Caution: Laser Radiation - do not stare into beam

ACCESSORIES

Docks

- 94A150052 Single Slot Dock with Spare Battery Slot

Batteries / Battery Chargers

- 94ACC0100 Standard Capacity Battery
- 94ACC0101 High Capacity Battery

Miscellaneous

- 94ACC0103 Handstrap

- 94ACC0102 Stylus, Guitar Pick Shape w/Cord (5 pcs.)

Note: All standard Elf accessories (except for the handle), will be usable together with the Elf HC model.

www.datalogic.com