



**FUNCTION**

Rugged construction survives unintentional drops to concrete and exposure to water and dust.

**FEEL & FORM**

Capitalizing on Datalogic's legendary ergonomics, the new PDA packs unprecedented features into a compact form factor built for single handed use. Use of an accelerometer eliminates awkward presentation of on screen data and a unique guitar pick stylus provides for intuitive touch screen navigation.

**COMPUTE**

Getting a job done quickly has never been easier with a 624 MHz processor and 256 MB RAM. A Micro SD card slot supporting SDHC storage cards provides for virtually unlimited storage space for photos taken with the onboard 3MP camera.

**CAPTURE**

Both a 1D laser scanner and 2D bar code imager enable a wide array of bar codes seen across diverse enterprises. Both have Datalogic's patented Green Spot good read technology to improve user efficiency and accuracy.

**COMMUNICATE**

The new PDA provides four wireless technologies in the same form factor: Bluetooth® EDR for fast data transfer, 802.11 a/b/g with Cisco Certified security, UMTS HSDPA for real-time communication outside the enterprise and Assisted GPS (A-GPS) with Skyhook's Core Engine hybrid positioning system for location based applications.

**DEVELOP, DEPLOY, DIRECT**

Elf™ offers the latest Windows Embedded Handheld 6.5 or CE 6.0 platform, with the Datalogic SDK and tools for integrating voice, pictures, and video to create or enhance existing mobility software solutions. Wavelink® device management tools make Elf™ a simple device to both deploy and maintain.



**FEATURES**

- Ergonomic, compact and robust
- Windows Embedded Handheld 6.5 or CE 6.0
- Assisted GPS (A-GPS) with Skyhook's Core Engine hybrid positioning system for location based applications and directions (WEHH 6.5 only)
- UMTS HSDPA mobile radio for voice and data communication (WEHH 6.5 only)
- 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
- High performance Laser or Wide aspect 2D imager with Datalogic's patented Green Spot for good read confirmation
- Accelerometer to auto-rotate display (WEHH 6.5 only)
- 3 Megapixel autofocus Camera with Flash (WEHH 6.5 only)
- 256 MB RAM / 256 MB Flash memory
- XScale™ PXA 310 @ 624 MHz processor
- User-accessible micro SD memory slot (SDHC)
- Ruggedized with 1.5 m / 5.0 ft drop to concrete resistance and IP64 protection class
- Wavelink Avalanche® device management
- Pal™ Application Library prelicensed

**INDUSTRY-APPLICATIONS**

- Field Force Automation: Sales, Service and Courier
  - Workforce Management
  - Proof of Delivery
  - Fleet Management
  - Access Control
  - Inventory management
  - Order management
  - Order and price look-up
  - Mobile CRM
- Retail: Mass and General Merchandisers, Warehouse Clubs, Pharmacy, Grocery and Convenience Stores
  - Store management
  - Inventory
  - Shelf replenishment
  - Price management
  - Order entry
  - Assisted sales

**WIRELESS COMMUNICATIONS**

|                              |   |
|------------------------------|---|
| GLOBAL POSITION SYSTEM (GPS) | Assisted GPS (A-GPS) with Skyhook's Core Engine hybrid positioning system   |
| LOCAL AREA NETWORK (LAN)     | Summit IEEE 802.11a/b/g<br>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  |
| WIDE AREA NETWORK (WAN)      | UMTS HSDPA 850 1900 2100 - GSM/GPRS/EDGE 850 900 1800 1900 MHz for voice and data communication; SIM socket under the battery |

**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     | Micro PDF, 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<br>PARTICULATE AND WATER SEALING<br>TEMPERATURE | Withstands drops from 1.5 m / 5 ft onto concrete IP64<br>Operating: -10 to 50 °C / 14 to 122 °F<br>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<br>Ethernet: via single-slot or multi-slot docks (external modules) |
|------------|---|

**PHYSICAL CHARACTERISTICS**

|                       |  |
|-----------------------|--|
| DIMENSIONS<br>DISPLAY | 15.7 x 8.1 x 4.2 cm / 6.2 x 3.2 x 1.7 in<br>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 |
| KEYPAD                | 27-key Numeric or 46-key QWERTY backlit keyboard standard; Side scan keys, push to talk and volume setting   |
| WEIGHT                | 415.0 to 44.0 g / 14.6 to 15.5 oz, depending on model (includes battery)   |

**READING PERFORMANCE**

|                           |  |
|---------------------------|--|
| CAMERA (WEHH MODELS ONLY) | 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<br>Image Formats: BMP, JPEG<br>Resolution: Wide VGA (752 H x 480 V pixels), 256 gray scale<br>Depth of Field: 5 to 64 cm / 2 to 25 in, depending on bar code density<br>Minimum Resolutions: 0.10 mm / 4 mils<br>Scan Rate: 104 +/- 12 scans/sec<br>Vibrator, LEDs and Green Spot |
| LASER                     |  |
| READING INDICATORS        |  |

**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<br>LASER CLASSIFICATION | Complies to China RoHS; Complies to EU RoHS CDRH/IEC Class II; VLD - Class 2/II EN 60825-1/CDHR  |
| LED CLASSIFICATION                               | IEC Class 1M   |

**SOFTWARE**

|                             |  |
|-----------------------------|--|
| APPLICATIONS                | Vo-CE™ (voice recognition), Wavelink® SpeakEasy (voice recognition)<br>Pal™ Application Library prelicensed<br>Wavelink Avalanche® prelicensed, Avalanche Remote Control™, Datalogic Firmware Utility (DFU);<br>Datalogic Desktop Utility (DDU); Datalogic Configuration Utility (DCU) |
| CONFIGURATION & MAINTENANCE | Windows SDK, Datalogic SDK (C/C++, .Net, Java), Wavelink Studio, MCL-Collection™, Java Virtual Machine   |
| DEVELOPMENT                 | Wavelink Terminal Emulation, Wavelink Industrial Browser, Wavelink ConnectPro™   |
| TERMINAL EMULATION          |  |

**SYSTEM**

|                  |  |
|------------------|--|
| COPROCESSOR      | ARM-7 32 bit 72 MHz  |
| EXPANSION SLOTS  | Micro SD card slot compatible with SDHC cards, user-accessible   |
| MEMORY           | System Flash: 256 MB (including Backup directory for user data & programs permanent storage)<br>System RAM: 256 MB   |
| MICROPROCESSOR   | XScale™ PXA310 @ 624 MHz   |
| OPERATING SYSTEM | Windows CE 6.0 or 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  |



Caution: Laser Radiation - do not stare into beam

**Docks/Battery Chargers**

- 94A151124 Single Slot Dock with Spare Battery Slot (Opt. Ethernet or Modem Connection)
- 94A151134 Four Slot Dock (Optional Ethernet Connection)
- 94A151130 Power Mobile Dock

**Miscellaneous**

- 94ACC1378 Quick-attach Handle
- 95ACC0002 Headset VXI VR12





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