

Datalogic Elf Rugged Handheld

Professional PDA

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

FEEL & FORM - Capitalizing on Datalogic Mobile'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 on-board 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. HF RFID readers available in combination with barcode readers complete the package.

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 Mobile 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.

Key Features

Ergonomic, compact and robust

Microsoft Windows Mobile 6.5 or CE 6.0

Assisted GPS (A-GPS) with Skyhook's Core Engine hybrid positioning system for location based applications and directions (WM 6.5 only)

UMTS HSDPA mobile radio for voice and data communication (WM 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 both with Green Spot patented good read confirmation

Integrated HF RFID reader

Accelerometer to auto-rotate display (WM 6.5 only)

3 Megapixel autofocus Camera with Flash (WM 6.5 only)

256 MB RAM/256 MB Flash

XScale™ PXA 310 @ 624MHz processor

User-accessible micro SD memory slot (SDHC)

Ruggedized with 1.5 m (5 ft.) drop to concrete resistance and IP64 protection class

Wavelink Avalanche® device management

Pal Application Library pre-licensed



Datalogic Elf Rugged Handheld



Rugged Systems is one of Europe's leading suppliers of rugged, mobile computer, display and communications solutions and services. Specialising in applications such as test & measurement, command and control, data acquisition, secure data & computing, TEMPEST and ultra-reliable message transfer over noisy tactical communication channels. The company strives to be innovative and provide cost effective solutions, through many years of knowledge and experience

Rugged Systems – Marlin House, 459 London Road, Camberley, Surrey GU15 3JA, UK

Tel +44 (0)1276 686707 Fax +44 (0)1276 684329

www.rugged-systems.com

Datalogic Elf Specifications



FUNCTIONAL

Processor	MICROPROCESSOR XScale™ PXA310 @ 624 MHz COPROCESSOR ARM-7 32 bit 72 MHz
Memory	256 MB
Storage	256 MB Flash (including Backup directory for user data & programs permanent storage)
Display	Reflective TFT daylight readable colour display, allowing resolution of 320 x 240 pixels (CE only) or 640 x 480, 89 mm (3.5") diagonal, 65K colours, backlight, touch screen
I/O	27-key Numeric or 46-key QWERTY backlit keyboard standard. Side scan keys, push to talk and volume setting, Touch Screen Micro USB connector: USB 2.0 Client, USB 1.1 Host and Client OTG, also for supplying power. Electrical: integrated RS232 up to 115.2 Kbps, USB 2.0 Client, USB 1.1 Host
Reading Options	LASER CHARACTERISTICS SCANNING RATE 104 ± 12 scan/sec MINIMUM RESOLUTION 0.10 mm / 4 mils DEPTH OF FIELD 5 to 64 cm (2 to 25 in), depending on bar code density BAR CODES GS1 Databar, EAN/UPC, Code 39, 2/5 Codes, Plessey, Codabar, Code 128, EAN128, MSI, Code 93, Code 11 LASER CLASSIFICATION VLD - Class 2/II EN 60825-1/CDHR IMAGER CHARACTERISTICS SCANNING RATE 60 frames/sec maximum MINIMUM RESOLUTION Linear codes at 3 mils; 2D codes at 5 mils BAR CODES UPC A, UPC E, EAN 8, EAN 13, Interleaved 2 of 5, Code 39, Code 39 Full ASCII, Codabar, Code 128, EAN 128, Code 93, MSI, PDF417, Micro PDF, DataMatrix, QR, GS1 Databar, Aztec, Maxicode, POSTNET, PLANET, Japan Post, Australia Post, KIX Code, Royal Mail RM4SCC, USPS 4CB, UPU FICS LASER CLASSIFICATION CDRH/IEC Class II LED CLASSIFICATION IEC Class 1M RESOLUTION Wide VGA (752 H x 480 V pixels), 256 gray scale IMAGE FORMATS BMP, JPEG RFID CHARACTERISTICS OPERATING FREQUENCY 13.56 MHz RFID TAGS ISO14443 Philips Mifare Classic 1k (read/write block only), Philips Mifare Classic 4k (read/write block only), Philips Mifare Ultralight RFID TAGS ISO15693 EMS LRP ISO15693 Series, EMS HMS Series, Texas Tag-It HF-I ISO15693, Infineon ISO15693, I-CODE SLI ISO15693 OPERATING RANGE Up to 10 cm CAMERA CHARACTERISTICS (Windows Mobile 6.5 only) RESOLUTION 3 megapixel ILLUMINATION User controllable flash LENS Auto focus
Integrated Communications	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 LOCAL AREA NETWORK (LAN) Summit IEEE 802.11a/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 GLOBAL POSITION SYSTEM (GPS) Assisted GPS (A-GPS) with Skyhook's Core Engine hybrid positioning system
Operating System	Windows CE 6.0 or Windows Mobile 6.5 with Mobile tools: Outlook, Word Mobile, Excel Mobile, PowerPoint Mobile, One Note Mobile and Internet Explorer Mobile 6.0
ENVIRONMENTAL (IP64)	
Temperature	Operating: -10°C +50°C (-4°F to 122°F) Storage: -20°C +70°C (-4°F to 158°F)
Rain/Dust	IP64 standard for water and dust resistance
Drop	Withstands drops from 1.5 m (5 ft.) onto concrete
PHYSICAL	
Dimensions	157 mm x 81 mm x 42 mm (6.18" x 3.18" x 1.65")
Weight	415 to 440 g (14.6 to 15.5 oz) depending on model (incl. battery)
Chassis	Impact-resistant ABS+PC polymer, IP54 rated, multiple 4ft drops to bare concrete
ELECTRICAL	
Power	Removable battery pack with rechargeable Li-ion batteries; 3.7 V 3000/5000 mAh(11.10/18.50 Watt hours)
OPTIONS	
Accessories	Single Slot Dock with Spare Battery Slot (Opt. Ethernet or Modem Connection) Four Slot Dock (Optional Ethernet Connection) Powered Mobile Dock Quick-attach Handle

Information in this document is subject to change without notice.



Rugged Systems is one of Europe's leading suppliers of rugged, mobile computer, display and communications solutions and services. Specialising in applications such as test & measurement, command and control, data acquisition, secure data & computing, TEMPEST and ultra-reliable message transfer over noisy tactical communication channels. The company strives to be innovative and provide cost effective solutions, through many years of knowledge and experience