

Wearable Solution

For Dolphin 70e Mobile Computer

There are lots of opportunities throughout the enterprise to increase efficiency and reduce labor costs using a hands free computing solution: small parts picking, large package handling, sortation, truck loading... any time two hands are required. Up until now, that has required the use of a dedicated wearable device and a redesign of the application and the process to utilize the limited user interface. Using the rugged enterprise class Dolphin 70e with purpose-built wearable accessories provides a new approach to enabling hands free operations. The large display, flexible touchscreen keypads, and WEH 6.5 architecture allow existing applications to be deployed hands free. Without reengineering!

The lightweight wearable accessories provide increased comfort and improved hygiene over conventional wearables. The rubber watchband style armbands stretch slightly as the arm moves, and therefore remain tight to prevent sliding down or spinning around the arm. The rubber materials do not absorb perspiration and are easily cleaned between shifts. All components are breakaway for safety and easily swappable for left hand or right hand operation. The system supports corded or BT-connected ring scanners and provides a rugged audio interface to Honeywell's line of headsets. All standard D70e accessories, such as charging cradles and 4 bay battery chargers, are available.

Several software enhancements have been incorporated to make use as a wearable device even more user friendly. Pairing the BT ring scanners is now as easy as scanning a single barcode. APIs are available that allow voice applications to optimize voice recognition performance and the user's audio experience. An integrated keyboard designer is included that allows creation of popup keypads that are appropriate for the operation at hand. The appropriate keypad can be invoked by the user using hot keys, by a local application using an API, or by a Telnet host using special commands to the terminal emulation SW. This provides for a context-sensitive keypad: the users see only the keys they need when they need them.



A new approach to hands free computing – get the benefits without the cost and hassle of reengineering your process or applications

Features

- **Hands Free without Reengineering:** Run your existing applications as a wearable solution- without rewriting.
- **General Purpose Device:** Don't get stuck with a dedicated device that only serves one purpose. Share the D70e on different tasks between shifts, or standardize on one general purpose device across multiple enterprise applications, including hands free.
- **Large Clear Display:** The 4.3" display with capacitive touch screen and outstanding readability provides plenty of space for data and keypads. Clearly superior to conventional wearable displays.
- **Light Weight:** The total weight of the Honeywell Wearable Solution is less than conventional wearable computers.
- **Flexible Keypad:** The use of touchscreen-based keypads and the integrated keyboard designer allow you to deploy just the keys that the user needs, only when needed. Can be controlled by a local application, hot keys, or a Telnet Host application.
- **Watchband Style Armband:** Improves comfort and eliminates hygiene concerns. The rubber watchband straps are comfortable, reduce sliding or rotating on the arm, and don't absorb perspiration. Easily cleaned.

Honeywell Wearable Solution Technical Specifications

Mechanical

Dimensions (LxWxH)	D70e with Standard Battery:	134 mm x 73 mm x 18 mm (5.3" x 2.9" x 0.7")
	D70e with Extended Battery:	134 mm x 73 mm x 23.9 mm (5.3" x 2.9" x 0.9")
	Arm Mounted Sled:	141mm x 83mm x 38mm (5.6" X 3.3" x 1.5")
	Corded Laser Ring Scanner:	48mm x 28mm x 28mm (1.9" x 1.1" x 1.1")
	Corded Imager Ring Scanner:	48mm x 28mm x 33mm (1.9" x 1.1" x 1.3")
Weight	D70e Standard Battery:	204 g (7.2 oz)
	D70e Extended Battery:	244 g (8.6 oz)
	Corded Laser Ring Scanner:	65 g (2.3 oz)
	Corded Imager Ring Scanner:	79 g (2.5 oz)
	Sled and Armband:	163 g (5.7 oz)

Environmental

Operating Temperature	-20° to 50°C (-4°F to 122°F)
Storage Temperature	-25° to 70°C (-13° to 158°F)
Humidity	Humidity 0 to 95% relative humidity (non-condensing)
Drop	Withstands multiple 4' (1.2m) drops to concrete, all axis, and across operating temperature range (standard and extended batteries)
Tumble	Exceeds 1,000 (0.5m) tumbles per IEC 60068-2-32 specification (standard battery) (not while in sled) Exceeds 300 (0.5m) tumbles per IEC 60068-2-32 specification (extended battery) (not while in sled)
ESD	± 15KV Air and ± 8KV Contact
Environmental Sealing	Independently certified to meet IP54 standards for moisture and particle intrusion (IP67 outside of sled)

System Architecture

Processor	1GHZ single core TI OMAP
Operating System	Microsoft® Windows® Embedded Handheld 6.5
Memory	512MB RAM X 1GB FLASH
Display	4.3" WVGA (480 x 800), super bright, sunlight viewable
Touch Panel	2 finger capacitive touch, optically bonded for extra durability and better sunlight viewability
Keypad	Dedicated scan key, 4 programmable keys, volume up and down keys, side scan key, Honeywell Virtual Keypad™ and Keypad Creator™
Audio	Speaker, dual array digital microphones with echo and noise cancellation
I/O Ports	Micro USB, 3.5 mm headphone (not accessible while in sled) Combo mic/headphone jack with supporting shroud and overmold
Camera	5.0 megapixel camera with autofocus and flash (Not accessible while in sled)
Sensors	Accelerometer, vibration, ambient light and proximity
Storage Expansion	User accessible microSD slot (SDHC compatible). Please check with your Honeywell representative for available qualified card options.
Battery	Standard: Li-ion 3.7 V, 1670 mAh; Extended: Li-ion 3.7 V, 3340 mAh
Hours of Operation	Laser, Standard battery: 6 hrs, Extended battery: 12 hrs (scanning and sending data over WLAN every 10 secs) 2D Imager, Standard battery: 4 hrs, Extended battery: 8 hrs (scanning and sending data over WLAN every 10 secs)
Integrated Decode Capabilities	Dedicated imager capable of decoding standard 1D and 2D bar code symbologies (Not accessible while in sled)
Corded Ring Scanners	Standard range laser, standard range 2D imager with enhanced white LED illumination
Development Environment	Honeywell SDK for Microsoft® Windows® Embedded Handheld 6.5
HSM Application Software	Honeywell Powertools™ and Demos, Remote MasterMind™ for Mobility remote device management RFTerm and ETE Terminal emulations Keypad development tool suite Context Sensitive Keypad Deployment tools
Warranty	1 year factory warranty

Wireless Connectivity

WLAN	IEEE 802.11 a/b/g/n; Wi-Fi™ certified
WLAN Security	WEP, 802.1x, LEAP, TKIP, MD5, EAP-TLS, WPA-PSK, WPA v2.0, PEAP, CCXv4
WPAN	2.4 GHz (ISM Band) Adaptive "frequency hopping" Bluetooth® v4.0; Class I.5, 10m (33') line of site

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