Wearable Solution
For Dolphin 75e 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. 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™ 75e mobile computer with purpose-built wearable accessories provides a new approach to enabling hands-free operations. The large display and flexible touchscreen keypads allow much more user-friendly applications to be deployed, improving productivity. Often, an existing application will run without modification.

With a wearable solution based on a general-purpose computer like the Dolphin 75e, companies are not forced to invest in a dedicated device that serves only one purpose. The Dolphin 75e mobile computer can be used for different tasks on different shifts and across multiple applications throughout the enterprise. Finally, this solution offers both Microsoft® Windows® Embedded 8.1 Handheld and Android™ 4.4 operating systems, which support modern applications and development tools. A clear migration path is available for support of Windows 10 and Android 5, further future-proofing your investment.

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 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- or right-hand operation. The system supports corded or Bluetooth®-connected ring scanners and provides a rugged audio interface to Honeywell headsets. All standard Dolphin 75e computer accessories, such as charging cradles and four-bay battery chargers, are available.

A new approach to hands-free computing – get the benefits of hands free without the issues of a dedicated-purpose device.

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. 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™ 75e mobile computer with purpose-built wearable accessories provides a new approach to enabling hands-free operations. The large display and flexible touchscreen keypads allow much more user-friendly applications to be deployed, improving productivity. Often, an existing application will run without modification.

With a wearable solution based on a general-purpose computer like the Dolphin 75e, companies are not forced to invest in a dedicated device that serves only one purpose. The Dolphin 75e mobile computer can be used for different tasks on different shifts and across multiple applications throughout the enterprise. Finally, this solution offers both Microsoft® Windows® Embedded 8.1 Handheld and Android™ 4.4 operating systems, which support modern applications and development tools. A clear migration path is available for support of Windows 10 and Android 5, further future-proofing your investment.

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 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- or right-hand operation. The system supports corded or Bluetooth®-connected ring scanners and provides a rugged audio interface to Honeywell headsets. All standard Dolphin 75e computer accessories, such as charging cradles and four-bay battery chargers, are available.

A new approach to hands-free computing – get the benefits of hands free without the issues of a dedicated-purpose device.
Dolphin 75e Wearable Solution Technical Specifications

MECHANICAL
Dimensions:
Standard Battery: 134 mm x 73 mm x 18 mm
(5.3 in x 2.9 in x 0.7 in)
Extended Battery: 134 mm x 73 mm x 23.9 mm
(5.3 in x 2.9 in x 0.9 in)
Arm-Mounted Sled: 141 mm x 83 mm x 38 mm
(5.6 in x 3.3 in x 1.5 in)
Corded Imager Ring Scanner: 50 mm x 30 mm x 30 mm
(2.0 in x 1.2 in x 1.2 in)
Weight:
Standard Battery: 204 g (7.2 oz)
Extended Battery: 244 g (8.6 oz)
Corded Imager Ring Scanner: 71 g (2.5 oz)
Sled and Armband: 163 g (5.7 oz)

ENVIRONMENTAL
Operating Temperature: -20°C to 50°C
(-4°F to 122°F)
Storage Temperature: -25°C to 70°C
(-13°F to 158°F)
Humidity: 0 to 95% relative humidity
(non-condensing)
Drop: Withstands multiple 1.2 m (4 ft) drops to
concrete, all axes
Tumble: Exceeds 1,000 (0.5 m) tumbles per
IEC 60068-2-32 specification (standard battery)
Exceeds 300 (0.5 m) tumbles per IEC 60068-2-
32 specification (extended battery)
Environmental Sealing: Independently
certified to meet IP54 standards for moisture
and particle intrusion (IP67 outside of sled)

SYSTEM ARCHITECTURE
Processor: 2.26 GHz Qualcomm Snapdragon
801 quad-core
Operating System: Windows Embedded 8.1
Handheld, Android 4.4.4 KitKat
Memory: 2 GB RAM X 16 GB FLASH
Display: 109.2 mm (4.3 in) WVGA (480 x 800),
super bright, sunlight viewable
Touch Panel: Multi-touch projected capacitive
touch, optically bonded for extra durability and
better sunlight viewability, works with many
off-the-shelf gloves and when wet
Keypad:
Windows Embedded 8.1 Handheld:
Dedicated center scan button, back button,
home button, volume up and down keys, power
button, programmable triangle and circle buttons
Android:
Programmable scan keys (center,
left, right scan key), option to launch a user-
selectable app
Audio: Speaker, digital microphone with echo
and noise cancellation; focus on VoIP quality
I/O Ports:
Micro USB, 3.5 mm headphone/
mic combo jack with supporting
shroud and overmold
Camera: 8.0-megapixel camera with
autofocus and flash with advanced software
features for better image quality, not available
while in sled
Sensors: Accelerometer, ambient light,
proximity, gyroscope, compass
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
2D Imager Ring, Standard Battery: 4 hours
2D Imager Ring, Extended Battery: 8 hours
(scanning and sending data over WLAN every
10 seconds)
Integrated Decode Capabilities:
Dedicated imager capable of decoding standard 1D and
2D barcode symbologies (not accessible while
in sled)
Corded Ring Scanners: High-performance
standard-range 2D imager
Development Environment: Honeywell SDKs
for Android and Windows

Honeywell Application Software:
Honeywell Powertools™ and Demos
Warranty: One-year factory warranty

WIRELESS CONNECTIVITY
WWAN: No WWAN configuration
WLAN: 1x1 IEEE 802.11 a/b/g/n/ac
WLAN Security:
Windows Embedded 8.1 Handheld: OPEN,
WEP, WPA2-PSK/Enterprise, PEAPv0/
MSCHAPv2, EAP-TLS, EAP-TTLS
Android: OPEN, WEP, WPA2-PSK/Enterprise,
PEAPv0/MSCHAPv2, EAP-TLS, EAP-TTLS and
CCKM
WPAN: 2.4 GHz (ISM Band) Adaptive
“frequency hopping” Bluetooth v4.0; Class 2,
10 m (33 ft) line of sight
NFC: Integrated NFC reader
Embedded Secure Element (Android)

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.
For a complete listing of all supported bar code symbologies, please visit www.honeywellaidc.com/symbologies.