CN75
Ultra-Rugged Mobile Computer

The Honeywell CN75 and CN75e mobile computers offer the versatility customers demand, providing the choice of a Windows® or Android™ operating system on a single device to meet changing enterprise business demands. The no-compromise design is powered by a 1.5 GHz dual-core, multi-engine processor with 2 GB RAM and 16 GB Flash, offering the highest degree of future-proofing capability.

Specifically designed for mobile field service workers who need power and performance in a compact form factor, the Honeywell CN75 mobile computer offers the perfect balance of ruggedness, duty cycle and ergonomics while providing unparalleled versatility. The CN75e device offers the same power-packed computing but with a larger keypad design, making it ideal for delivery environments where workers may be wearing gloves or have more data input-intensive applications.

The CN75 and CN75e mobile computers deliver unparalleled reliability with smart battery technology that provides enough power to last a full work shift, eliminating dead batteries and downtime. The CN75 and CN75e mobile computers are also equipped with a high-performance imager that provides fast and accurate barcode scanning capabilities even in low-light scanning environments, with unmatched motion tolerance to eliminate costly delays in scan-intensive applications.

The no-compromise design extends to radio connectivity, as well. The wide-area solutions feature a Flexible Network voice and data WWAN radio that operates on networks worldwide, offering switch-on-the-fly network selection capability and eliminating the need for multiple pools of devices dedicated to one network.

FEATURES & BENEFITS

- Supports Windows Embedded Handheld 6.5 and Android 6.0 Marshmallow operating systems for flexible application support and migration.
- Flexible radio technology provides optimal network coverage and a superior solution for implementing least-cost routing strategies.
- Withstands 2.4 m (8 ft) drops to concrete, 2,000 (1 m) tumbles and has an IP67 seal rating against rain and dust.
- Advanced barcode imaging technology with motion tolerance for snappy scanning and white illumination with laser aiming for high read rates.
- Full compatibility with printers, application software, communications and a complete set of peripherals and accessories, enabling a comprehensive enterprise business solution.
**PHYSICAL CHARACTERISTICS**

CN75 Dimensions with Battery:
- L x W x D: 16.9 cm x 8.0 cm x 3.4 cm (6.65 in x 3.15 in x 1.34 in)
- Weight: 450 g (15.9 oz) with battery

CN75e Dimensions with Battery:
- L x W x D: 19.5 cm x 8.0 cm x 3.4 cm (7.66 in x 3.15 in x 1.34 in)
- Weight: 491 g (17.3 oz) with battery

**ENVIRONMENTAL**

Operating Temperature: -20°C to +60°C (-4°F to +140°F)*
Storage Temperature: -30°C to +70°C (-22°F to +158°F)
Charging Temperature: +5°C to +35°C (41°F to 95°F)
Relative Humidity: Non-condensing, 95%
Rain and Dust Resistance: IP67
Drop Spec: 2.4 m (8 ft) to concrete per MIL-STD 810G, 1.8 m (6 ft) to concrete across operating temperature range per MIL-STD 810G, 2,000 (1 m) tumbles per IEC 60068-2-32 specification
Electrostatic Discharge: +/-15 kV air discharge; +/-8 kV direct discharge

**POWER**

Battery Pack: 3.7 V, 4000 mAh; IEEE 1725 compliant, Li-Ion, removable, rechargeable

**OPERATING SYSTEM**

Microsoft® Windows Embedded Handheld 6.5 or Android 6.0 Marshmallow with GMS

**MULTI-ENGINE PROCESSOR ARCHITECTURE**

Texas Instruments 1.5 GHz OMAP 4470 dual-core, multi-engine processor architecture

**MEMORY**

RAM: 2 GB
ROM: 16 GB Flash
Storage Expansion: Customer-accessible micro-SD slot for removable memory cards up to 32 GB

**DISPLAY**

8.9 cm (3.5 in) Transmissive VGA
480 x 640 pixels
65,536 (16-bit RGB) colors
High-durability touch screen
Hardened Corning® Gorilla® Glass display for superior durability
LED backlight
Ambient light sensor

**STANDARD COMMUNICATIONS**

USB – Full Speed 2.0 Host, USB – Full Speed 2.0 Client

**SOFTWARE APPLICATIONS AND COMPONENTS**

Device Management:
- SmartSystems™ Foundation provides a single, integrated environment for hands-free deployment and management of devices on-site or remote. Also compatible with leading third-party data and device management products.
- ScanNGo for easy barcode-based enterprise-wide device provisioning. It can be used to download device management software from Honeywell ISVs.
- CloneNGo, a peer-to-peer device management software that enables simple device cloning, eliminating the need to use a management console for device provisioning.

Application Development: Honeywell Developer Library

Device Health Monitoring: On-board monitoring of key subsystems including scanning, communications and battery life

Optional Honeywell Enterprise Client Pack: Terminal Emulation and HTML 5 Browser

Optional Launcher: Application locking

**DATA MANAGEMENT**

Skynax® Mobile Communications

**INTEGRATED RADIOS**

Wireless WAN: Worldwide Voice and Data (can switch between UMTS and CDMA radio networks)
- UMTS/HSPA+
  - UMTS Frequencies: 800, 850, 900, 1900, 2100 MHz
  - GSM/GPRS/EDGE Frequencies: 850, 900, 1800, 1900 MHz
  - Max Speeds (Network Dependent):
    - Uplink – 5.76 Mbps; Downlink – 14.4 Mbps
- CDMA/EV-DO Rev A
  - Dual Band CDMA2000 Bands:
    - BC0 & BC1 (800/1900 MHz)
  - Max Speeds (Network Dependent):
    - Uplink – 1.8 Mbps; Downlink – 3.1 Mbps

Wireless LAN: IEEE 802.11 a/b/g/n
- Security: Wi-Fi Certified for WPA and WPA2, WAPI Certified
- Authentication: 802.1x
- Cisco Compatibility: CCXv4
- Encryption: WEP (64- or 128-bit), AES, TKIP

Wireless PAN: Integrated Bluetooth® Power Class 1.5 Version 4

**GLOBAL POSITIONING SYSTEM**

(With WAN Radio Option)
- 12-channel integrated GPS; network-independent autonomous mode; supports assisted operation via XTRA®, CP E911
- GPS dedicated AT commands
- Protocol: NMEA-0183 V2.3
- Tracking Sensitivity: better than -158 dBm
- GLONASS support
**SENSOR TECHNOLOGY**

**Accelerometer:** Embedded accelerometer enables automatic or application-specific features such as screen rotation or system suspend.

**AUDIO SUPPORT**

Supports VoIP/speech recognition/push-to-talk applications; front and rear speakers; rear speaker >80 dB at 40 cm (15.7 in); front receiver and front panel microphone for handset audio communication and audio recording; wireless Bluetooth headset support; wired headset support via snap-on adapter.

**INTEGRATED SCANNER**

EA30 High-Performance Motion-Tolerant 2D Imager:

- (up to 500 in/s) white LED illumination; red laser aimer and framer optimized for all lighting conditions. Capable of scanning all common 1D and 2D barcodes; 1D as small as 4 mils; 2D as small as 6.6 mils. Refer to User’s Manual for depth-of-field performance.

**INTEGRATED CAMERA**

5-megapixel auto-focus color camera with LED flash.

**KEYPAD OPTIONS**

All keypad options feature backlit hard keycaps with laser-etched legends.

**CN75:**

![NUMERIC KEYPAD](image1)

![QWERTY KEYPAD](image2)

**CN75e:**

![LARGE NUMERIC KEYPAD](image3)

![QWERTY KEYPAD](image4)

**HONEYWELL GLOBAL SERVICES SUPPORT**

Contact for Support:

- www.hsmcontactsupport.com
- Public Knowledgebase Articles: www.hsmknowledgebase.com

Telephone support available in North America (800-782-4263). Outside of this area, contact your local representative.

**ACCESSORIES**

FlexDock modular docking system, vehicle dock, vehicle holder, snap-on adaptors, removable scan handle, magnetic stripe reader, 6822 full-page printer and PW50 workboard printer.

**REGULATORY APPROVALS AND COMPLIANCE**

CN75LAN, CN75WAN

- **Safety:** cULus Listed, BSMI
- **EMC:** Class B – FCC/ICES/EN, GOST-R
- **Radio:** FCC, Industry Canada, A-tick (AU), NCC, IDA, ICASA, POSTEL, NTC, ETA, SIRIM, ANATEL
- **Environmental:** EU Directives-WEEE, RoHS, Batteries and Accumulators, Packaging and Waste Packaging

**NON-INCENDIVE VERSION**

CN75 and CN75e with NI certification comply with the following:

- **Safety:** cULus Listing – ISA/ANSI 12.12.01
- **Gases:** Class I – Groups A, B, C, D
- **Dusts:** Class II – Groups F, G
- **Fibers and Flyings:** Class III

*Max. Ambient: 50°C (122°F) T6

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

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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