

## CN51

### Mobile Computer

The Honeywell CN51 Mobile Computer offers unparalleled versatility, allowing the choice of Windows® or Android™ operating systems on a single device coupled with a power-packed 1.5 GHz dual-core, multi-engine processor, 1 GB RAM and 16 GB Flash for the highest degree of future-proofing capability.

Designed for a superior user experience, the CN51 computer's large, multi-touch, outdoor-readable screen provides ample room for application viewing with less scrolling and greater productivity, as well as more space for capturing signatures. It's also equipped with state-of-the-art smart battery technology, delivering enough power to last a full shift and reducing the cost for replacement batteries.

The CN51 computer is equipped with a high-performance imager that provides quick and accurate barcode scanning capabilities even in low-light scanning environments, with unmatched motion tolerance to eliminate costly delays and user frustration during scan-intensive applications.

The 5-megapixel color camera combined with Honeywell's cutting-edge image processing technologies deliver advanced capability beyond reading barcodes. Mobile Document Imaging (MDI) and Remote Deposit Capture (RDC) provide a fast and reliable way to convert full-size paper documents or check payments into electronic files while out on the road, transmitting directly from the point of capture to the back-office workflow.

Enterprises with large, geographically dispersed workforces need adaptable network coverage. The CN51 computer answers the call with its voice-capable Flexible Network Radio (in North America), allowing the same device to operate on either CDMA or UMTS wireless networks. Depending on which network provides the best geographic coverage or the lowest cost, the CN51 computer can be switched on the fly, should coverage needs change.

Industry-leading software and service solutions like CloneNGo offer breakthrough device provisioning that makes it easy to replicate a master configuration across an unlimited number of devices to get up and running



*With its multi-touch, outdoor-readable screen, long battery life and highly accurate barcode scanning capabilities, the CN51 Mobile Computer offers unparalleled versatility and performance for mobile workers.*

quickly. Honeywell SmartSystems™ Foundation also monitors key subsystems, including scanning, communications and device health, to prevent issues before they impact operations.

Honeywell's support services help protect your investment by reducing unexpected operational impacts of network communication issues and minimizing device downtime due to accidental breakage.

## FEATURES & BENEFITS

### MULTI OS

Supports Microsoft® Windows Embedded Handheld 6.5 and Android 6.0 Marshmallow operating systems for flexible application support and migration.



Large 4 in. brilliant WVGA multi-touch display allows for more graphical user interface, display-centric applications.



Withstands multiple 1.5 m (5 ft) drops to concrete across the operating temperature range and has an IP64 seal rating against rain and dust.



Features best-in-class motion tolerance and support for omnidirectional 1D and 2D barcode scanning.



Features WAN radio options with voice and data support including UMTS and Flexible Network UMTS/CDMA, PTT, as well as 802.11 a/b/g/n, Bluetooth® and GPS with GLONASS support.

# CN51 Technical Specifications

## PHYSICAL CHARACTERISTICS

**Dimensions with Battery (L x W x D):**  
164 mm x 74 mm x 28 mm (base of unit)  
or 32 mm (top of unit) (6.45 in x 2.93 in x  
1.09 in or 1.26 in)

**Weight with Battery:** 350 g (12.3 oz)

## ENVIRONMENTAL

**Operating Temperature:**  
-10°C to +50°C (+14°F to +122°F)

**Storage Temperature:**  
-20°C to +70°C (-4°F to +158°F)

**Charging Temperature:**  
+5°C to +35°C (+41°F to +95°F)

**Relative Humidity:** Non-condensing,  
95%

**Rain & Dust Resistance:** IP64

**Tumble Specification:** 1,000 - 0.5 m  
(1.6 ft) tumbles at room temperature

**Drop Specification:** 26 drops from 1.5  
m (5 ft) to concrete across the operating  
temperature range per MIL-STD 810G

**Electrostatic Discharge:**  
±15kV air discharge, ±8kV direct discharge

## POWER

**Smart Battery Pack:** 3.7V, 3920mAh;  
batteries are IEEE 1725 compliant, Li-Ion,  
removable, rechargeable

## OPERATING SYSTEM

Microsoft Windows Embedded Handheld  
6.5 or Android 6.0 Marshmallow with GMS

## MICROPROCESSOR

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

## MEMORY & STORAGE

**Memory:** 1 GB RAM

**ROM:** 16 GB Flash customer-accessible  
microSD slot for removable memory cards  
up to 32 GB

## DISPLAY

- 101.6 mm (4.0 in), 480 x 800  
pixel (WVGA) TFT-LCD display
- LCD supports 24 bpp color depth
- LED backlight
- Ambient light sensor
- Resistive multi-touch touch panel

## STANDARD COMMUNICATIONS

USB – High Speed 2.0 Host, USB – High  
Speed 2.0 Client

## SOFTWARE APPLICATIONS & 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

**Imaging Solutions:** VIN scanning, Reusable Container Serial Number Scanning, Remote Deposit Capture, License Plate Verification, Mobile Document Imaging, Shipment Address Verification, etc.

**Device Health Monitoring:** On-board monitoring of key subsystems including scanning, communications and battery life; remote access requires SmartSystems management option

**Web Browsing:** Honeywell HTML5  
Browser

## DATA MANAGEMENT

Skyfax® Mobile Communications

## INTEGRATED RADIOS

### Wireless WAN Options:

**UMTS/HSPA+ (Voice and Data):**  
Worldwide except Americas, Australia and  
New Zealand

**UMTS/HSPA Frequencies:** 900, 2100  
MHz Max Speeds (Network Dependent):  
Uplink – 5.76 Mbps; Downlink – 14.4 Mbps

**GSM/GPRS/EDGE Frequencies:**  
900, 1800 MHz Max Speeds (Network  
Dependent): Uplink – 384 Kbps; Downlink  
– 384 Kbps

**Flexible Network (Voice and Data):**  
Americas, Australia and New Zealand  
(can be switched between the 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 and  
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 on  
devices without Wireless WAN radio; IEEE  
802.11 b/g/n on cellular devices

**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, drop  
detection or system suspend.

## AUDIO SUPPORT

Supports VoIP / speech recognition /  
push-to-talk applications; speaker and  
front panel microphone for handset audio  
communication and audio recording;  
wireless Bluetooth headset support.

## INTEGRATED SCANNER OPTIONS

**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.

**EA31 High-Performance Motion-  
Tolerant 2D Imager:** (up to 400 in/s) white  
LED illumination. 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.

# CN51 Technical Specifications

## INTEGRATED CAMERA OPTION

5-megapixel auto focus color camera with LED flash

## KEYPAD OPTIONS

27-key numeric or 43-key QWERTY with backlit keypad

## HONEYWELL GLOBAL SERVICES SUPPORT

Contact for Support:

[www.hsmcontactsupport.com](http://www.hsmcontactsupport.com)

Public Knowledgebase Articles:

[www.hsmknowledgebase.com](http://www.hsmknowledgebase.com)

Telephone support available in North America (+1 800 782 4263). Outside of this area, contact your local representative.

## ACCESSORIES

Supports all CN50 charging and docking accessories as well as FlexDock modular docking system, vehicle dock, vehicle holder, snap-on adaptors, removable scan handle, DEX adapter and magnetic stripe reader.

## REGULATORY APPROVALS & COMPLIANCE

1015CP01, 1015CP01S, 1015CP01U

**Safety:** cULus Listed, Demko, BSMI

**EMC:** Class B – FCC/ICES/EN, EAC, CCC

**Radio:** FCC w/HAC, Industry Canada, CE, NCC, OFCA, IDA, SDPPI, NTC, ETA, SRRC, SIRIM, COFETEL, TELEC, ANATEL, TNZ, RCM, CONATEL, MOC (66 countries total)

**Environmental:** EU Directives - WEEE; RoHs; Batteries & Accumulators; Packaging & Waste Packaging

For a complete listing of all compliance approvals and certifications, please visit [www.honeywellaidc.com/compliance](http://www.honeywellaidc.com/compliance).

For a complete listing of all supported barcode symbologies, please visit [www.honeywellaidc.com/symbologies](http://www.honeywellaidc.com/symbologies).

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