CW45

Rugged Wearable Computer

The CW45 wearable computer is a rugged performance tool that helps improve productivity by ergonomically presenting the workflow information at the point of activity and integrating the tools needed to perform the job at hand.

The CW45: A dedicated wearable mobile computer bringing optimized ergonomics and performance to arm-worn applications. Comfortable, powerful, compact, durable, and easy to use, the CW45 provides maximum solution return on investment.

Ultra-reliable performance, data connectivity, and communications for frontline mobile workers in warehouse/DC, retail, logistics, and manufacturing are only a glance away with the CW45. Designed from the ground up for comfort, ease of use, and reliability, the CW45 offers a low profile, large HD display, enterprise-level ruggedness, and comfortable, easy-to-wear accessories. The CW45 is designed for businesses that invest in sophisticated solutions and want a durable, stable, secure platform on which to implement them. Built on the newest generation of Honeywell's Mobility Edge™ platform, the CW45 delivers the lifecycle, security, and durability to optimize solution return on investment in the long term.

NEW CHALLENGES CALL FOR AN AGILE RESPONSE

Change in the supply chain has only accelerated in recent years, with e-commerce adoption spreading across every demographic group and retail category, elevated safety protocols and disruptions in trade patterns are becoming routine. Businesses are meeting these challenges with new solutions based not only on advanced mobile devices, but also key software capabilities. The CW45 family is integrated with powerful software solutions from Honeywell such as Operational Intelligence asset optimization and Smart Talk unified communications, as well as a broad ecosystem of UEM, WMS, retail and ERP solutions.

FEATURES AND BENEFITS

The Mobility Edge platform allows companies to test and validate applications once, accelerate deployments across the enterprise, optimize device performance, simplify maintenance, and extend product lifecycle.

Designed expressly for wearable utility and premium comfort, the CW45 offers a low center of gravity, compact size, large HD display, the ability to hot-swap the battery without removing the device, and easy-to-use, durable wearable accessories that ensure the device comfortably stays in place for optimum hands-free operation.

Embedded with the latest Wi-Fi 6 technology, the CW45 increases data throughput, and provides a better experience on voice or video communications even in a highly dense connected environment.

Complete the solution set with software and accessories to mobilize your workforce. Connect the 8675i rugged wearable scanner (via Bluetooth or power cable) for rapid, reliable, and FlexRange™ data capture. Tap-to-pair with Honeywell Voice headsets. Implement Honeywell Guided Work Voice solutions. The full solution is ready to work when you are.

Honeywell

HASSLE-FREE CONNECTIVITY

Mobile workers often struggle to get up-to-date information in a timely manner to boost efficiency. In response, the CW45 leverages the latest Wi-Fi 6 technology to facilitate access to essential information with low latency, even in a highly dense connected environment.

IMPROVE PRODUCTIVITY

Handsfree efficiency can improve throughput on your current processes just by eliminating the constant movement of picking up and setting down the device. Wearables also minimize time lost when handheld devices are misplaced. And having the right information when it is needed can help improve decision-making and reduce errors.

EASE USER DEPLOYMENT

Purpose-built as a wearable device, the CW45 has been designed from the ground up to conform to the user, not the other way around. Low weight, compact size, low center of gravity, and secure, comfortable, easy to adjust wearable accessories make this easy for users to implement from day one.

SIMPLE INTEGRATION

Designed to kit with common solution components, the CW45 can pair with the hardware and software solutions needed to easily implement in common workflows.

BUILT ON THE MOBILITY EDGE PLATFORM

Built on the newest generation of Honeywell's Mobility Edge platform, a durable, stable, secure foundation for effective, long lasting solutions, the CW45 family delivers the lifecycle, security and durability required by serious businesses. The CW45 leverages the latest processor and memory technology for high performance with guaranteed support through Android 13, with a commitment to support through Android 14 and Android 15, subject to feasibility.

CW45 Technical Specifications

MECHANICAL

Dimensions: 133 mm x 86 mm x 14 mm
Weight: 263g (9.3 oz) with standard battery pack
328g (11.6 oz) with extended battery pack
Display Size: 11.9 cm (4.7 in)
Resolution: High-Definition (1280 x 720)
Backlight: LED
Touch Panel: Rugged multi-touch capacitive touch panel, optically-bonded for durability and outdoor readability. Glove, stylus, and rain modes supported. Water droplet rejection with screen protector mode. Covered with Gorilla Glass 5 for increased resistance to impacts and drops.
Soft Keys: F1, F2, and F3 keys along the bottom edge of the device. Default functions are Volume up, Volume down, and Enter. Reprogrammable by application.
Audio: PTT, VoIP ready, speaker, One microphone
I/O Ports:
Durable, flat I/O connector.
USB OTG supported
Universal Dock Platform: Compatible

ENVIRONMENTAL

Operating Temperature:
-20°C to +50°C (-4°F to +122°F)
Storage Temperature:
-30°C to +70°C (-22°F to +158°F)
Humidity: 5% to 95% (non-condensing)
Drop: Multiple 1.2m (4 ft) drops to concrete at -20°C to +50°C (-4°F to +122°F) per MIL-STD-810H).
Multiple 1.8m (6 ft) drops to concrete at 23°C to +50°C (73°F to +122°F) per MIL-STD-810H).
Tumble: Exceeds 1,000 times at 0.5m (1.64 ft) per IEC 60068-2-32 specification
ESD: ±8 kV direct; ±15 kV air
Environmental Sealing: Independently certified to meet IP65 and IP67 standards for moisture and particle intrusion
Thermal Shock: -30°C to +70°C

Disinfectant-ready housing enables frequent cleaning without cracking or fading durable plastic housing. Refer to User Guide for a list of approved cleaning agents.

SYSTEM ARCHITECTURE

Processor: Qualcomm QCS4290/ QCM4290 octa-core, 2.0GHz
Operating System:
Released with Android 12. Guaranteed support through Android 13, with a commitment to support through Android 14 and Android 15, subject to feasibility.
Memory:
6 GB DDR4x RAM, 64 GB UFS Flash
Camera:
13-megapixel side-facing camera; 8-megapixel front-facing camera
Sensors: Ambient light sensor, accelerometer, gyroscope, eCompass, high gravity sensor
Battery: Li-Ion; smart battery with integrated diagnostic tools
Standard Battery Pack: 3.6 V, 3400 mAh
Extended Battery Pack: 3.6 V, 6800 mAh
Battery hot swap: 1 minute duration
Charging: hours to be fully charged (25C):
Standard Battery Pack: 3 hours typical
Extended Battery Pack: 6.5 hours typical
Hours of Operation:**

Device config.	Screen brightness	Standard battery	Extended battery
Bluetooth connection to 8675i SR or FR scanner	50%	**21**	**43.5**
Bluetooth connection to 8675i SR or FR scanner	90%	**11**	**22**
Cabled connection to 8675iSR scanner	50%	**12**	**24.5**
Cabled connection to 8675iFR scanner	50%	**14**	**26.5**
Cabled connection to 8675iSR scanner	90%	**7.5**	**16**
Cabled conection to 8675iFR scanner	90%	**9.5**	**17**

Decode Capabilities: 1D/2D barcode symbologies, Honeywell SDKs for Android
Application Software: Honeywell Mobility Edge Utilities and Demos

WLAN:
Wi-Fi6 certified: IEEE 802.11 a/b/g/n/ac/ax and 2*2 MU-MIMO
WLAN Security: OPEN, WEP, WPA/WPA2/ WPA3 (Personal and Enterprise)
Push to Talk (PTT): Supported
Supported EAP: TLS, PEAP, TTLS
Bluetooth®: V5.1 Bluetooth and BLE
Bluetooth Profiles: HFP, PBAP, A2DP, AVRCP, OPP, SPP, GATT
NFC: Integrated NFC reader, compliant with ISO/IEC 14443 A, ISO/IEC 14443 B, ISO/IEC 15693 (ICode), MIFARE 1K / 4K, MIFARE DESFire, Sony FeliCa, ISO/IEC 18092 (Type F)
VPN: IPSec V4/L2TP, PPTP

WARRANTY

One-year factory warranty

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

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

Android, Bluetooth, Gorilla Glass and Qualcomm are trademarks or registered trademarks of their respective owners.

For more information
sps.honeywell.com

Honeywell Safety and Productivity Solutions
855 S Mint St
Charlotte, NC 28202
800-582-4263
www.honeywell.com

*Specifications are subject to change without notice.

***Values represent average results as tested. Note: Batteries typically retain 80% of original capacity after 400 charge/discharge cycles. Test conditions: one scan per 4 seconds, display continuously on at illumination specified

CW45 Datasheet LTR | Rev C | 01/23
© 2023 Honeywell International Inc.

Honeywell