Honeywell Intelligrated

Honeywell Universal Robotics Controller (HURC)

Superior Performance for Logistics Automation

Labor Challenges Are Driving the Need for Robotics

Robotics in the DC are vital to handle **growing order volumes** and overcome **labor availability** and **resourcing challenges.**

E-commerce distribution volume is accelerating at a yearly rate of **25%**

Industry growth **outpaces the labor pool** by a ratio of **6:1**

Manual operation is today's norm for **80%** of DCs

Current Solutions Can't Keep Up

Robotic developers have typically turned to **ROS** (Robotic Operating System) and **ROS2,** which have **significant drawbacks in a logistics environment.**

Unreliable performance

Slow adaptation to changing tasks and conditions

Limitations **collecting and sharing data** between modules or other types of robots

HURC Meets Market Needs for Performance and Functionality

HURC is **built specifically for dynamic, unstructured environments** like distribution centers and **leverages Honeywell's experience** with warehousing and e-commerce.

Designed in **strategic collaboration with Carnegie Mellon University,** HURC **increases your speed to market** by using common modules to:

See Better

Perceives challenging environments with **advanced visual sensors** like LIDAR, structured light and 3D cameras

Cutting-edge recognition identifies products, packages, labels and more

Senses locations of objects and people to **guide gripping technology** and **enhance worker safety**

Easy integration with complementary **sensing and AI solutions**

Think Smarter

Machine learning and artificial intelligence **improve performance**

Unique control system handles **massive volumes of data** in real time

Leverages lessons from past experiences, simulations and other robots

Reliable autonomy means **fewer operator interventions**

Act Faster

Faster data collection and processing power ensures **consistent execution**

Motion optimization for **greater speed and efficiency**

Equals or exceeds **speed of manual processes**

Adapts quickly to new products or packaging

Advanced Simulation Capabilities

Virtual environments allow for **simulated concepting, testing and troubleshooting.** This approach delivers **custom high-performance solutions** that **minimize your risk and costs** by enabling **faster development of new applications.**

Physics-based simulation platform mirrors the real world

Enables **virtual code development** and **machine learning training**

Use the same code for simulations and real-world applications

Connected Foundation

Built for connectivity, HURC enables **machine learning enhancements** and **better performance over time.**

Robots can **teach other robots,** even different types of robots

Share training models anywhere with **site-to-site machine learning**

Data analysis identifies opportunities for **performance improvements**