

Honeywell



Optimize Your Workflow Performance with Voice



Optimized Workflow Performance

Make an Efficient Business Run Even Better

In these challenging times, it's a balancing act to drive profitable growth and streamline existing processes to further reduce costs and make an efficient business run even better. Honeywell can help you identify additional ways to reduce your operating costs, while supporting increased workforce productivity and greater worker accuracy.

Honeywell is a leading provider of innovative voice technology solutions, helping companies with mobile workers run a better business with voice. Our Vocollect voice solutions provides you with streamlined best-in-class business processes to take your organization to the next level of operating efficiency. Our extensive supply chain industry domain expertise has helped us successfully onboard almost one million mobile workers around the world.

Honeywell offers the number one voice solution in the industry, specifically designed to fully leverage existing ERP & WMS technology investments with the industry's broadest and deepest data integration solution portfolio. We provide an elegantly

integrated solution from the headset to host data system for maximum worker confidence and ergonomics. Honeywell is proud to lead the industry forward with our market-leading Vocollect A700 Solution that optimizes voice and scanning.

Delivering results starts with our Value Engagement Process, where our team learns more about your specific business objectives as we gain an understanding of your detailed operational and workflow processes. We meet with key management to better understand the prioritization of the business issues that you want to address.

Together, we will physically walk through one of your targeted facilities to document and observe workers executing various tasks. Our observations and recommendations go well beyond just where voice technology could add quantifiable business value. After all, we want to help you run a better a business with voice.

Honeywell Vocollect Voice — Value with Velocity

Rapidly Relieve Your Operational Pressures

Time to value cannot be measured in years. Success must be measured in weeks and months. Your velocity toward gaining business value is a key operational deliverable and a reason why Honeywell continues to stand tall as the industry's most trusted and deployed voice solution. The majority of our customers show a measurable "hard" investment break-even in less than nine (9) months. This does not even take into account the many "soft" benefits obtained from implementing our solutions. You achieve business benefits rapidly by starting with best-in-class business processes, proven at thousands of individual customer implementations. Then together, we enhance the solution to fit your unique requirements.

We have a proven global best practice pedigree across a multitude of industries. Honeywell's Vocollect solutions excel at providing more successful multi-site implementations than all of our competitors combined. We attribute this success to providing our customers with quantifiable value after their first site implementation, which provides the continuing business justification to implement our solution at additional locations.

The success of our customers speaks volumes. Our interaction across many industries and diverse customer requirements enables our users to gain valuable insights outside their own industry. As an example, certain customers were confronted with addressing multi-channel order fulfillment issues well in advance of other segments. This has afforded us the opportunity to develop optimized best practices for multi-channel order fulfillment environments, well before it became an industry requirement. We also gained early insight into traceability mandates through working with customers wanting to support upcoming traceability requirements, long before they became ubiquitous in the marketplace and are now having an impact on virtually every industry.

Our customers say it best...the following is a collection of quotes from customers who obtained business value with our solutions:



"We've cut warehouse injuries in half and boosted our accuracy rate when filling orders to 99.99% from about 98%." - VP of Distribution



"The introduction of Vocollect has resulted in almost paperless, highly efficient processes, and our customer service is at its highest level ever." - Logistics Manager



"We save money every time we don't have to make an emergency delivery to a customer. And this enhances our image to our customers. You can't put a dollar value on that, but if I had to, it would be in the millions." - General Manager



"Vocollect Voice has streamlined our operations and provided us with increased productivity and improved accuracy. The new equipment is robust and effective for use in cold storage, and that will bring down our cost of ownership in the long run." - Operation Manager

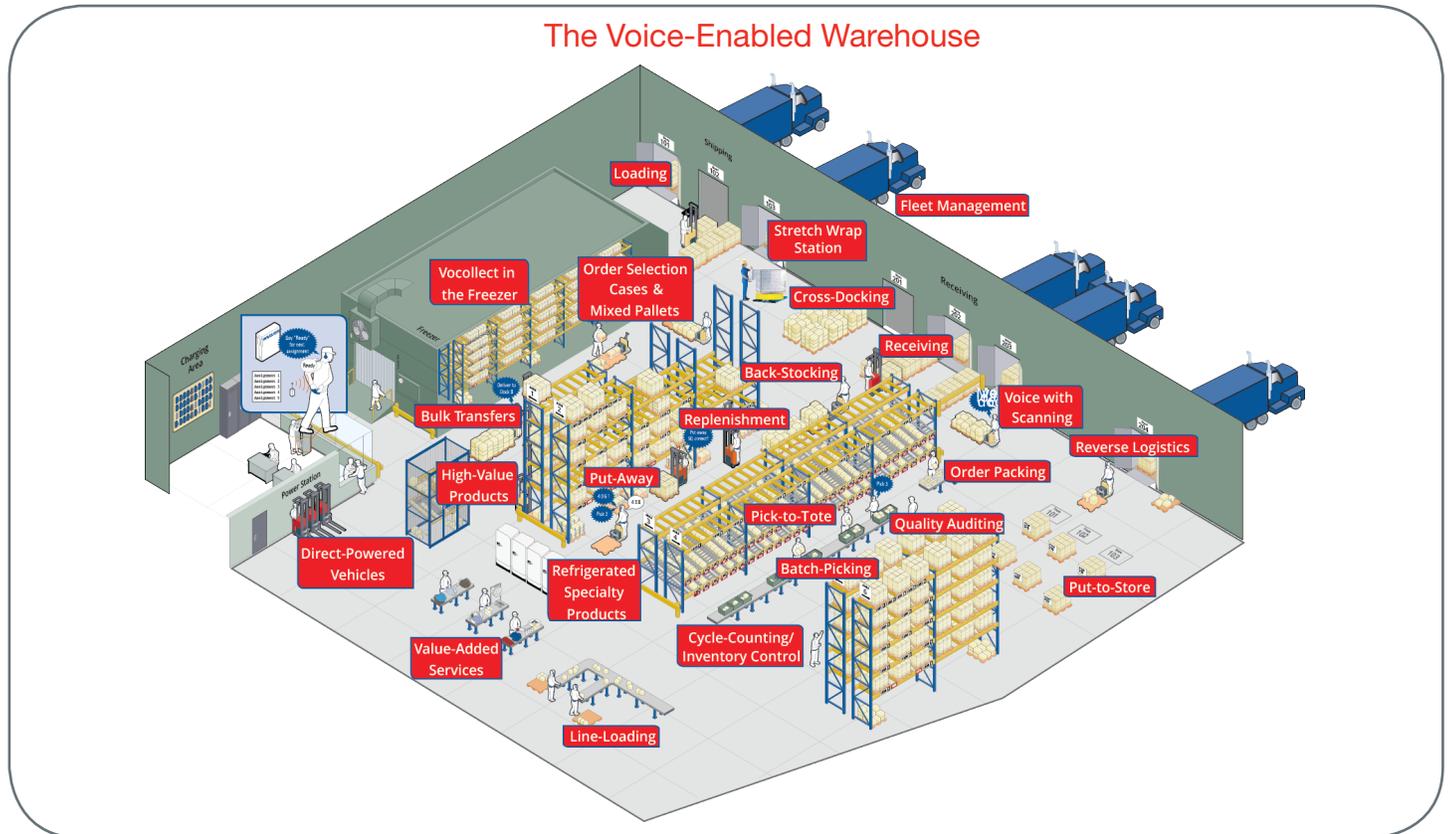
"Since the voice deployment, we have been able to confidently handle our seasonal fluctuations. Labor assignments are more flexible, which has helped us to reduce our labor hours by over 20%, decrease inventory adjustments in picking areas by 80%, and cut our training time by 80%." - CIO

Optimized Operational Flexibility

Maximum Worker Utilization

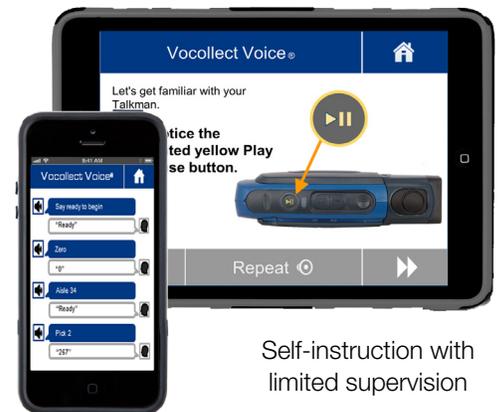
The addition of our Vocollect voice solutions to your distribution center operations offers you the transformative workforce performance gains you require, with the infrastructure flexibility you need. While voice technology was initially implemented to enhance the process flow for various fulfillment tasks, the extremely positive operational benefits companies netted resulted in a growing number of them expanding their use of our voice solutions into other areas of their distribution center.

Vocollect voice solutions provide you with the immediate operational benefits you desire, without multi-year infrastructure commitments that reduce your flexibility to adopt to changes in the business environment. You can even add Vocollect voice to an existing infrastructure such as handheld scanning, Pick-to-Light and various automation environments.



More Confident Workers with Vocollect RapidStart

We all know that confident workers typically outperform their peers. At Honeywell, we are always looking for ways to raise the worker confidence bar and to help reduce the burden on management to train workers. Our solution to this problem is Vocollect RapidStart, which enables workers to practically teach themselves with a consistent onboarding experience. Using Vocollect RapidStart greatly reduces the time needed for supervisor-led instruction and helps a worker learn how to use Vocollect voice solutions through audio and video cues, using any browser-based device with a display, taking them through a self-guided tour. It uses self-evident teaching aids for the worker and enables supervisors to follow their training progress remotely with their smartphones or tablets.



Self-instruction with limited supervision

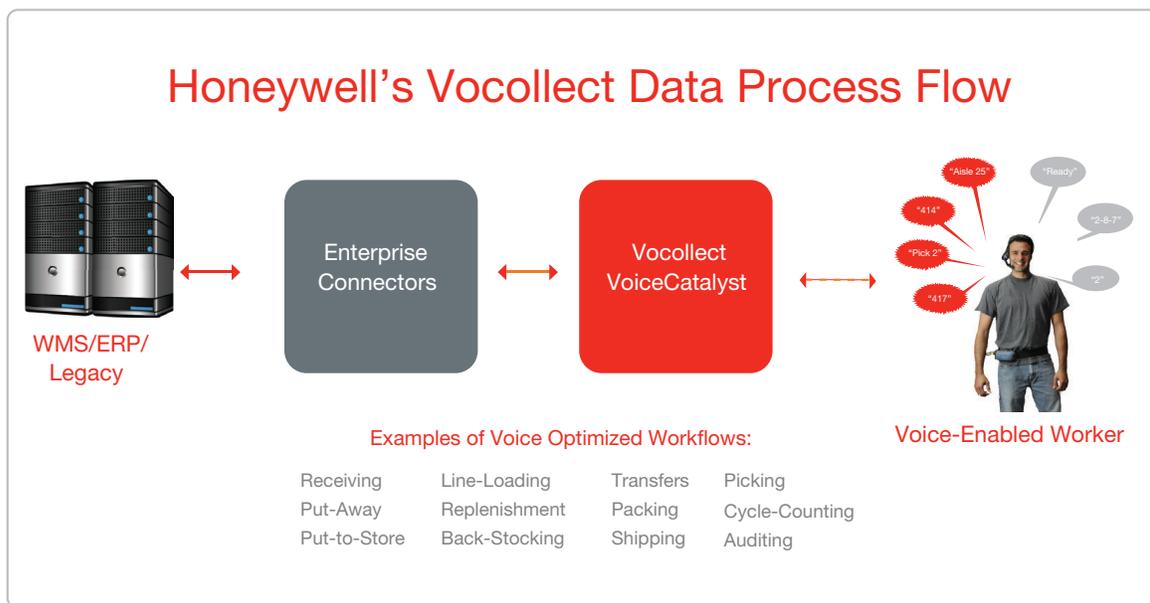
Follow workers remotely to better support and provide training assistance

Seamless and Scalable Integration

Supporting Industry Standards and Practices

Our industry experience has shown us that no two customers' business processes are exactly the same. Thus, it's vital that our integration architecture be flexible to accommodate many potential customer infrastructure configurations. Honeywell Vocollect voice solutions offer the deepest and broadest range of enterprise connectors to support virtually every architectural environment requirement. You even have the flexibility to leverage different enterprise connectors in differing areas of your business.

Balancing the needs of operations management, IT, and the actual workers is why Honeywell continues to lead the voice industry forward. Only Honeywell Vocollect voice solutions give you the choice and flexibility to manage your IT infrastructure the way you want to – while helping your business run better.



Vocollect SoundSense

Our groundbreaking Vocollect SoundSense voice recognition technology, when utilizing the Vocollect SRX2 wireless headset, reduces unwanted word and sound insertions by more than 50% with its high fidelity acoustic sampling capabilities.

A typical headset picks up standard warehouse noises that are then processed by a voice recognition engine. This includes common sounds such as pallet drops, truck beeps, conveyer system mechanism sounds and freezer fans. Each of these unwanted "noises" causes voice recognition sound interpretation delays. Vocollect SoundSense technology is a major leap forward for helping improve the worker experience.

```

Connected to IP 127.0.0.1
Please keep quiet for a few seconds.
Please say 0
1.
2.
Noise Sample Done
· !@#$, !@#$
Yankee . !@#$ one .
· November (r) . ready (r) .
· Uniform (r) .
·
· !@#$
Romeo . !@#$.
· !@#$ nine two ( - ) !@#$.
· !@#$ ready (r) .
· help (r) .
· !@#$
seven (r) . zero (r) . zero (r) .
· one (r) .
    
```

Voice Recognition without Vocollect SoundSense

```

Connected to IP 127.0.0.1
Please keep quiet for a few seconds.
Please say 0
1.
2.
Noise Sample Done
· ready
· nine two (r) two (l) .
· ready .
· seven . zero . zero .
· one .
    
```

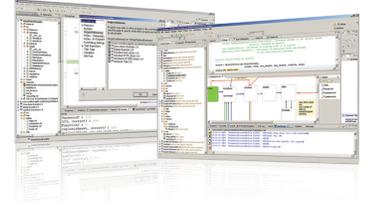
Using Vocollect SoundSense with a SoundSense Headset

Honeywell Vocollect Voice Software

Honeywell provides a complete solution developed together that enables all of the components to transform your distribution center workflows. We make sure that the focus is on future-proofing your operation and not turning your voice solution into a one-off project.

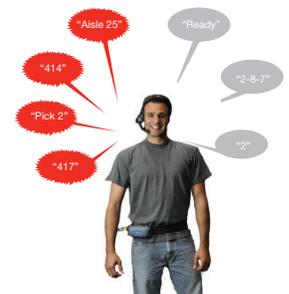
Development Platform: Vocollect VoiceArtisan

Vocollect VoiceArtisan is our flagship integrated development environment (IDE) software platform. Vocollect VoiceArtisan enables customers and partners to expand the capabilities of our solutions using rapid application development (RAD) techniques. Vocollect VoiceArtisan is an open, flexible, and extensible modern IDE that enables certified partners and trained customer IT teams to design, code, deploy, and maintain customer-defined solutions to address unique business requirements beyond existing out-of-the-box software functionality.



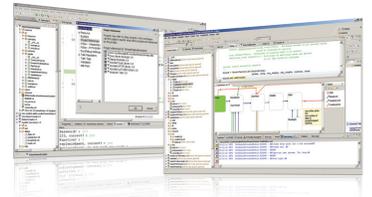
Voice Software: Vocollect VoiceCatalyst

Vocollect VoiceCatalyst enables unparalleled connectivity to devices, servers, and information and provides the launching point for implementing voice-enabled operations to achieve the highest levels of productivity. Superior speech-recognition with Vocollect BlueStreak personalized recognition is what makes Honeywell the #1 choice for voice solutions that power eyes-free, hands-free work by mobile workers. Vocollect VoiceCatalyst offers multiple language and enhanced dialect support to personalize the user experience. And it gets smarter over time, thanks to Vocollect Adaptive Speech Recognition, which improves recognition of your workers the more they use Vocollect VoiceCatalyst.



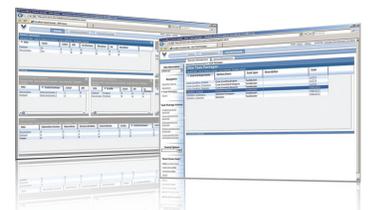
Voice Application: Vocollect VoiceApplications

Vocollect VoiceApplications leverage the extendable Vocollect VoiceCatalyst architecture to seamlessly interleave Vocollect VoiceApplications to complement the voice-enablement of tasks and workflow execution. The seamless connection of multiple data sources with your task workflows enables endless customization possibilities to streamline warehouse processes. Vocollect VoiceApplications can be used to provide supervisors with real-time exception notifications needing approval, notifications of exceptions on a receiving or loading dock needing release approvals, or real-time access to key ERP or WMS information to streamline warehouse processes. It can also provide workers the ability to send recorded messages to an alert display management system.



Device and Voice Management: Vocollect VoiceConsole

Vocollect VoiceConsole is a full-featured, web-based application that helps you to easily manage and support your voice-enabled workforce by providing asset tracking, along with device, operator and configuration management, as well as system diagnostics, all through a self-evident interface. Vocollect VoiceConsole allows you to view which workers are currently using voice-enabled devices and helps you to identify the tasks they are actively working on. Configurable notifications can be triggered for real-time responses while the homepage displays high-level information.



See Vocollect in Action



To see our solutions in action, visit the Vocollect YouTube.com channel for a multitude of video case studies and short vignettes showing Honeywell Vocollect voice solutions in action.

Honeywell Vocollect Voice Hardware

Elegant Design for Maximum Worker Ergonomics

The Vocollect A730 mobile device breaks down the long-time perceived walls between voice and scanning. Honeywell is proud to be the first and only organization in the world to have designed an ergonomic solution that optimizes voice and scanning in a single mobile device. For workers that occasionally require a scanner for tasks such as order induction or serial and lot number capture, you will be hard-pressed to find a more elegant and ergonomic solution.



Integrated Scanner End-Cap

The Vocollect A700 Solution offers models without a scanner end-cap as well as models supporting wired and wireless headsets. The Vocollect A700 Solution devices help ensure you reduce worker downtime to change batteries with our smart predictive battery management capabilities. The various A700 device models all use a common infrastructure of chargers, headsets, and accessories to provide you with maximum IT support flexibility.

Voice-Optimized Headsets

Only Honeywell offers industrial-grade headsets that are specifically designed and manufactured to support challenging warehouse environments. We understand what is required to maximize the 'headset experience,' which is often the weakest link in a positive worker experience.

Honeywell provides the flexibility to use either a wireless or wired headset option. We also offer headsets that are optimized for the challenging freezer and high-noise conveyor environments. Headset styles include versions worn behind-the-head, over the top of the head, or with hard hats. With our broad portfolio of headsets, you will find a headset choice to meet your specific demands.



Vocollect SRX2 Wireless Headset with Vocollect SoundSense

The Vocollect SRX2 wireless headset sets an entirely new standard for how workers work in the distribution center. It greatly enhances the worker experience by providing the most comfortable and ergonomic wireless headset option available. The Vocollect SRX2 wireless headset leverages Vocollect SoundSense voice recognition technology, offering unmatched accuracy. Using Vocollect TouchConnect, a worker can quickly pair their Vocollect SRX2 wireless headset with a simple "touch", thereby reducing shift start-up procedures from minutes to seconds. The innovative, shareable component design enables shared use of electronics across multiple shifts, reducing both the up-front and the ongoing cost of ownership.

Predictive Battery Management

No battery lasts forever. Our advanced predictive battery management minimizes the possibility that workers will be interrupted during their shift to replace batteries in their equipment. We approached this problem in two ways: from the voice worker's perspective and from the operations manager's perspective.

For voice workers, we help to reduce time wasted for unexpected battery changes by enabling workers to ask a device how much battery runtime remains on their A700 mobile device. Based on the device's response, a worker can then plan accordingly.

For operations managers, our advanced predictive battery management offers clear visual indications at the battery charging station about the health of each battery, enabling managers to better plan for future inventory needs. You can also configure your battery health parameters in Vocollect VoiceConsole so that your battery warnings best fit your usage patterns and environment. This is just another example of how Honeywell can help you run a better business with voice.

Type	Serial Number	Battery Health
Battery	101140123111	Good
Battery	101140123499	Good
Battery	101140123999	Replace Now
Battery	101140123222	Good
Battery	101140123333	Good
Battery	101140123888	Good
Battery	101150123488	Replace Soon
Battery	101140123400	Replace Now

Superior battery management with visibility inside Vocollect VoiceConsole

Improved Accuracy. Increased Productivity. Real Business Results.

Honeywell is a leading provider of innovative voice technology solutions, helping companies with mobile workers run a better business with voice. Every day, our Vocollect voice solutions enable nearly one million global mobile workers to move \$5 billion worth of goods and annually saves companies more than \$20 billion. Together with a global team of over 2,000 certified professionals, Vocollect solutions enable companies to further optimize operations, improve business decision capabilities, and deliver the industry's premier worker experience in challenging industrial environments. Vocollect integrates with all major WMS, ERP, material handling systems and maintenance & inspection systems and supports the industry's leading mobile computing devices. For more information, please visit www.vocollect.com.

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