

Simplify Fresh Produce Picklists with Computer Vision and AI



More than 3 in 10 shoppers avoid using self-service solutions when they plan to purchase fresh produce. Customers often feel that selecting loose, non-barcoded items is complicated and time-consuming — exactly what you want to avoid at checkout. Finding the right category, variety, or product in a long picklist slows down the process and creates unnecessary stress.

With Vynamic Smart Vision | Fresh Produce Recognition, this challenge becomes far simpler. Instead of searching manually, the system identifies the item automatically using AI, drastically reducing selection time. In live deployments, retailers achieve a 93% produce recognition rate, and shoppers experience a 67% reduction in selection time, making the process significantly faster and more intuitive.

More Efficient Checkout Experience

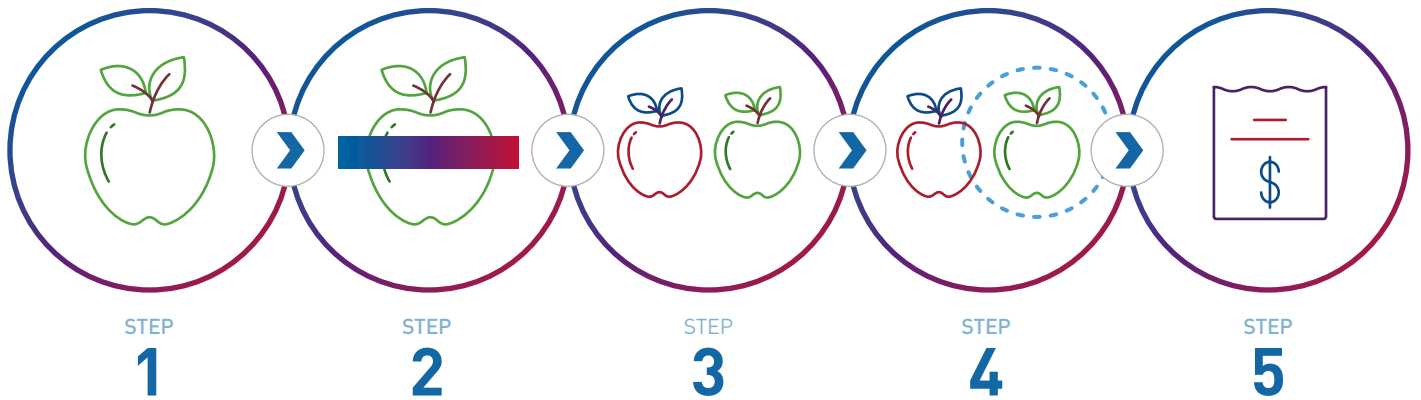
After the item is placed on the scanner/ scale and the produce function is selected, Vynamic Smart Vision | Fresh Produce Recognition identifies the item automatically. With computer vision, a short picklist — or even the exact item — is presented instantly, eliminating the need to scroll through long lists. The result is a faster, smoother checkout flow supported by hard metrics from real installations: 67% faster selection time and high overall impact on customer experience.

Better Consumer Experience

Vynamic Smart Vision | Fresh Produce Recognition monitors the scanning area to detect whether an item has been placed, removed, or mis-scanned, and classifies the type of produce in real time. Handling loose, non-barcoded fruit and vegetables becomes easy and intuitive. This streamlined approach reduces frustration, minimizes complexity, and enhances overall satisfaction. Live results show 85% customer acceptance of AI-supported produce recognition. A strong indicator that shoppers trust and embrace the improved process.

Better Staff Utilization

By eliminating the need to search through long produce lists, Vynamic Smart Vision | Fresh Produce Recognition reduces the number of customer mistakes and mis-selections that require staff support. Accuracy improves, shrink decreases, and interventions drop significantly. With 93% correct recognition and much faster item handling, staff can focus on higher-value tasks while maintaining a smooth checkout experience for customers.



THE CHECKOUT FLOW WITH VYNAMIC SMART VISION | FRESH PRODUCE RECOGNITION:

Your customers can easily handle fresh fruits and vegetables without barcodes:

- **STEP 1:** The consumer places the produce on the scanner/scale.
- **STEP 2:** A camera captures the item and Vynamic Smart Vision | Fresh Produce Recognition automatically identifies it.
- **STEP 3:** A short, context-based picklist — or even the exact item — is displayed.
- **STEP 4:** The customer selects the item; the scale weighs it automatically or the customer enters the quantity.
- **STEP 5:** The item is added directly to the transaction receipt.

Advanced Recognition Features

- The AI model can run either on a dedicated PC or directly on the self-service lane, providing flexible deployment options.
- Cloud connectivity enables continuous self-learning and model updates.
- Training and maintenance can be performed either centrally via the Vynamic Enterprise Manager or directly on the lane through the operator mode.
- Self-learning AI trained on hundreds of produce types; the database continuously improves based on real usage.

- New items can be added in-store on a self-service device within hours, supporting dynamic assortments.
- Detects loose items (including reusable nets and bags) and packaged produce, and counts items sold by quantity.
- Optional detection of organic vs. non-organic labelling.
- Front-end fraud prevention through AI analysis of anything on or near the scanner platen.
- Recognition of mixed fresh products placed on the scanner at the same time.
- Can run in silent or training mode before going live to avoid disruptions.

Key Benefits

- 93% produce recognition accuracy ensures reliable identification and reduces mis-scans.
- 67% reduction in selection time enables significantly faster handling of loose produce.
- High positive impact on the shopper journey due to simplified item entry.
- 85% customer acceptance shows that consumers trust and prefer AI-based produce recognition.
- Faster produce handling supports higher throughput and contributes to overall transaction efficiency.

VYNAMIC SMART VISION | FRESH PRODUCE RECOGNITION: Part of the Vynamic Self-service Suite of Solutions

High connectivity and openness are critical to being adaptive and ready to adopt future innovations, whatever they may be. Vynamic Self-Service is based on a platform approach using open APIs for faster and easier integration. Vynamic Self-Service is a service-oriented software solution that seamlessly supports the self-service process within a retail environment and easily allows the implementation of innovative solutions like Vynamic Smart Vision | Fresh Produce Recognition.

Learn more at [DieboldNixdorf.com](https://www.dieboldnixdorf.com)