

Viscovery

**Visual Discovery,
Unlimited Possibilities**



Viscovery = Visual Discovery

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Viscovery has developed in-house and implemented various types of Deep Learning and Computer Vision algorithms and models for our customers:



Object Recognition



Logo Detection



Text Detection & Classification



Face Detection & Identification



Human Pose Estimation



Natural Language Processing

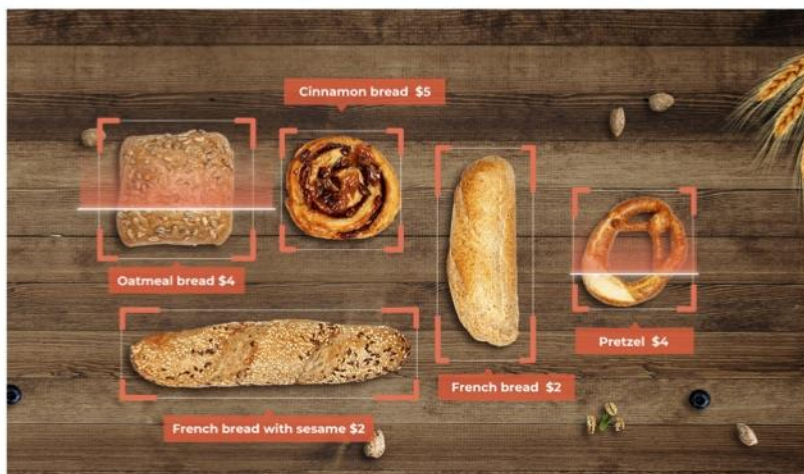


Scene Classification



Human Tracking & ReID

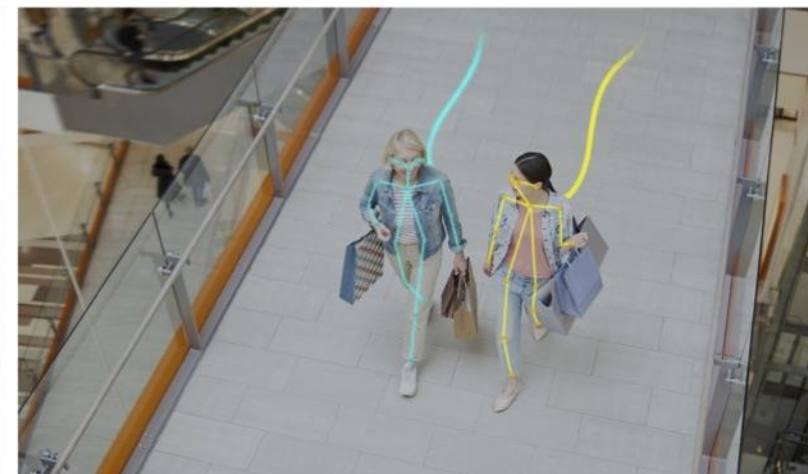
We provide automation and analytics AI solutions for online and offline retailers



Visual Checkout



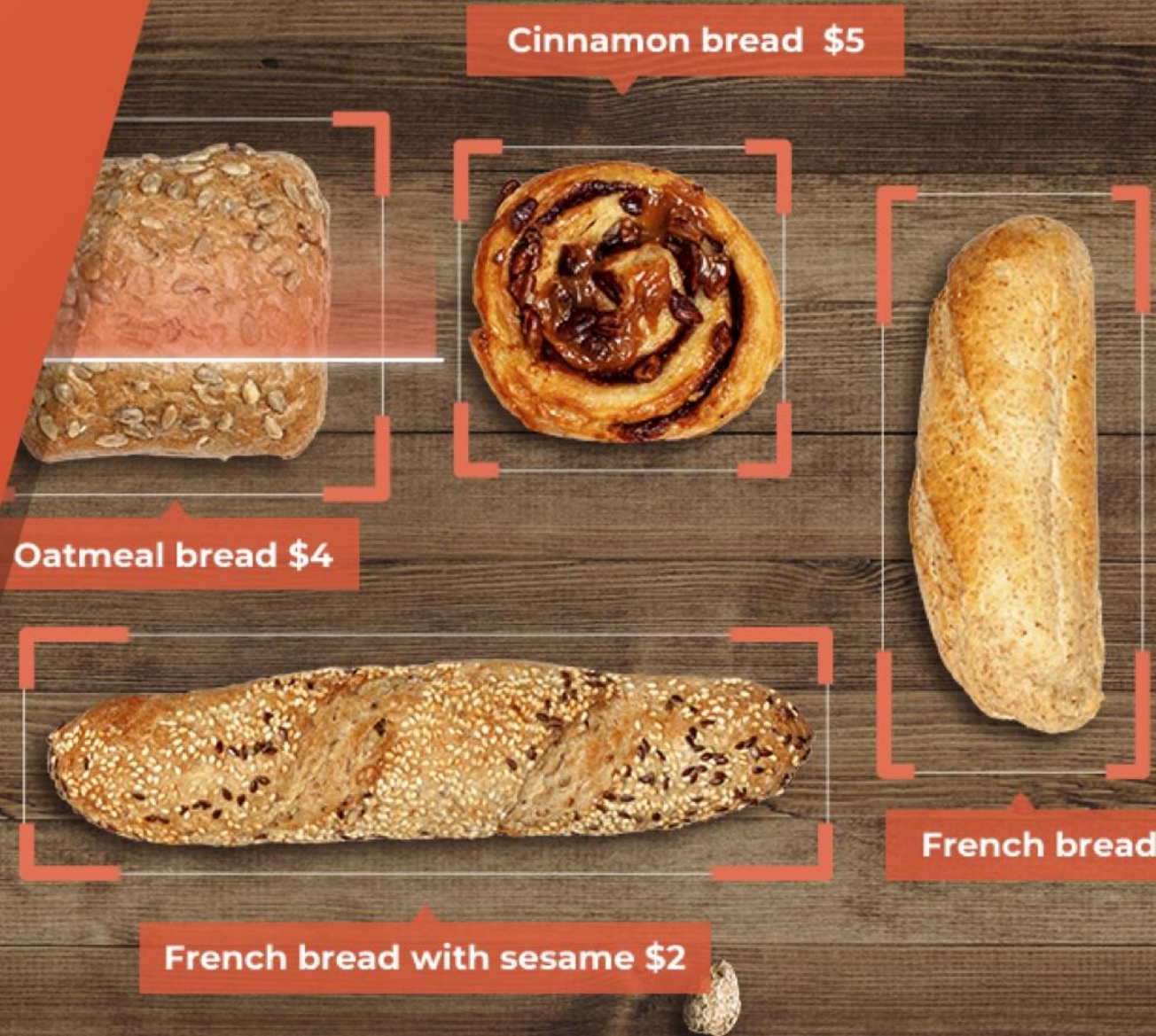
Visual Search



Visual Analytics

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Visual Checkout System



Retailer Challenges

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Pain Point 1



Long checkout waiting line

Pain Point 2



Difficulties with training cashiers to recognize unlabeled products

(Retailers also face insufficient staff, high turnover, and rising wages)

Pain Point 3



Incomplete sales report for same price item
→ Under or surplus production

Visual Checkout Benefits

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< 1 sec



Reduce Wait Time

Up to **80%** time saved



Faster Onboarding

1 day to train a cashier



Complete Sales Report

Precise sales forecast
Reduce waste



Operational cost



Customer satisfaction



Revenue

Viscovery Visual Checkout System

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Demo Video: <https://youtu.be/ZQ1YvM22IDo>

World's First Automated Visual Checkout System



- 1 Leverage Existing POS system
- 2 Plug & Play Camera Kit
- 3 On-the-Spot New Product Image Collection & Updates
- 4 Automated Model Tuning and Optimization
- 5 Easy to Adopt and Fast to Deploy

What Recognition Challenges We Have Overcome (1/2)

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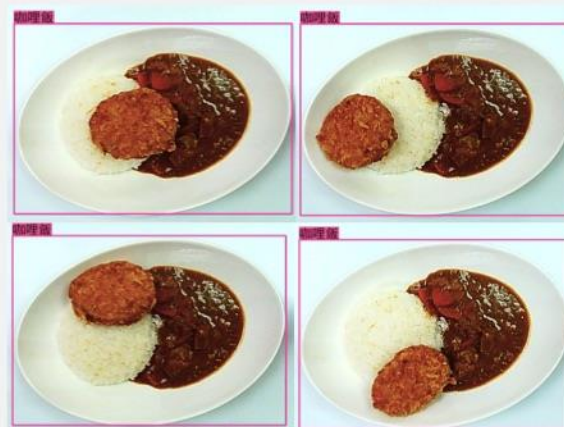
1 Similar Products



2 Packaged Products



3 Different Conditions



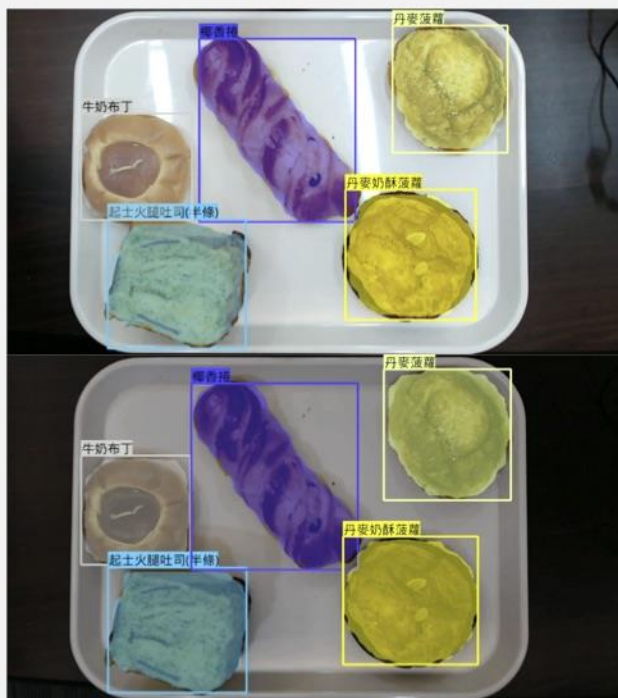
4 Similar Sizes



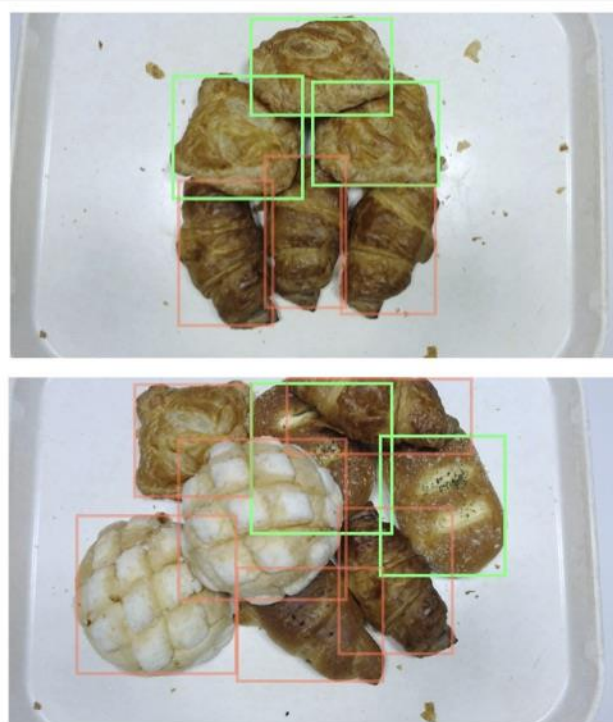
What Recognition Challenges We Have Overcome (2/2)

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5 Different Lighting Environment



6 Partial Blocking



7 Rotation



Why Viscovery? (1/3)

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Various Application & Flexible Integration

Application



Staff Canteens/
Student Canteens



Supermarkets/
Fruit Stores



Bakery Stores



Micromarkets/
Convenience Stores

Integration



Cashier-Assisted
(Viscovery Vision Kit
+ POS / iPad)

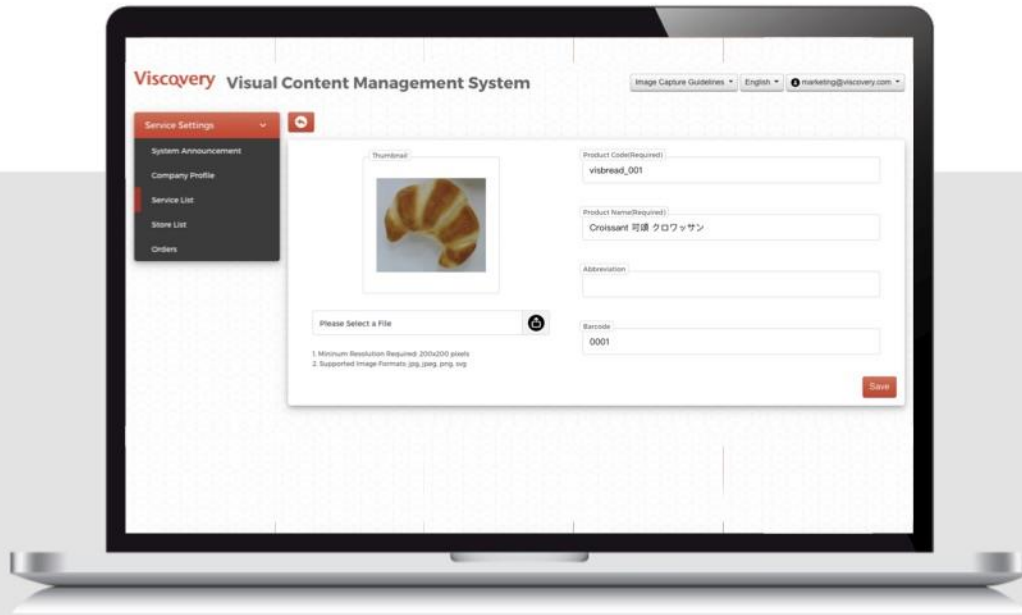


Full Self-Service
(KIOSK)

Why Viscovery? (2/3)

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On-the-Spot New Product Image Collection & Updates



**Require only 5 images
to be trained for a new product SKU**



Why Viscovery? (3/3)

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Optimization of Performance

Essentially learn from past checkout errors and correctly recognize the products in the future by Deep Learning technology



Use Case: 85°C Bakery Café (us)

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(International Bakery Chain Store from Taiwan)

Use Case: I JY SHENG (Taiwan bakery chain store)

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For more information, please visit www.viscovery.com
or email marketing@viscovery.com

THANK YOU