avalue
Technology Inc.

RENITY
A I R

RENITY AIR

**An Artificial Intelligence solution ideal
for Object Recognition and Classification**

- Fast and Accurate to Detect and Recognize products
- Easier to training AI and use without Experts
- Reduce the training cost of the new employee
- Economic, Efficient, and Low Total Cost of Ownership

RENITY AIR

AIR is an intelligent solution for helping customers detect and recognize the products and materials in Retail, Industrial, and Medical industries.
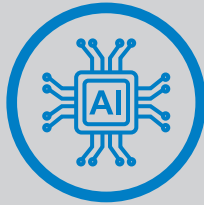
AIR can increase the efficiency & accuracy and reduce the employee training cost for various industries.

Product Benefits

Simple
Only Need 3 Images for Training
Intuitive User Interface & Experience

High-Speed
Edge Computing Recognize in 1 Second

Flexible
All in One or Standalone
Easy Integration
API Available

Affordable
Lower TCO
No Need for Permanent Internet Connection

Product Packages
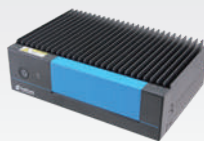
All in One
w/ Touch Monitor 18.5" + 15.6"

Flexible
Panel PC w/Camera Kit

Lite
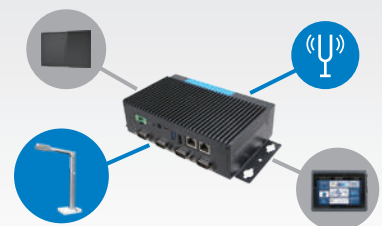Camera Kit with SDK for customers integrate with their products

EPC-WHL
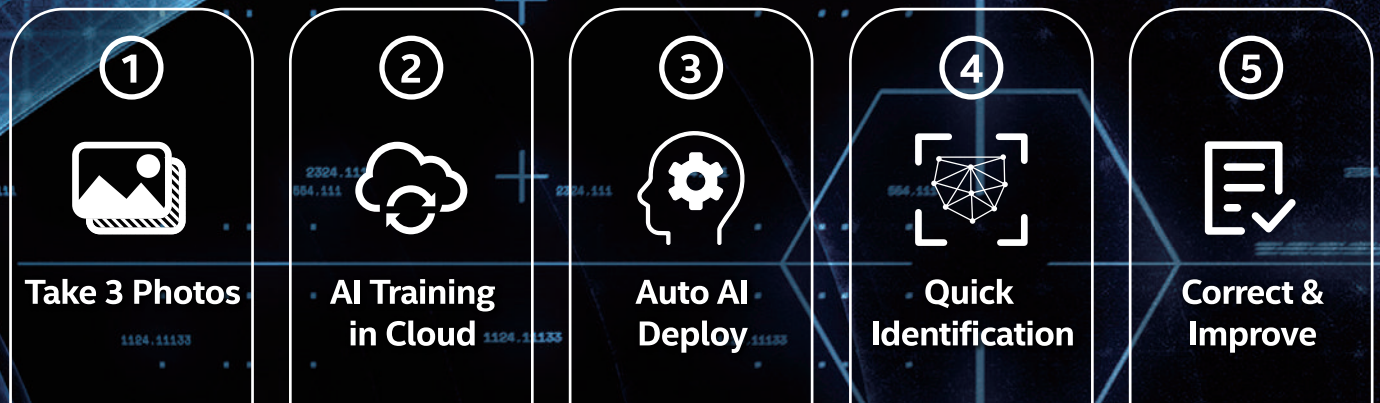8th Gen Intel® Whiskey Lake Fanless Tiny System

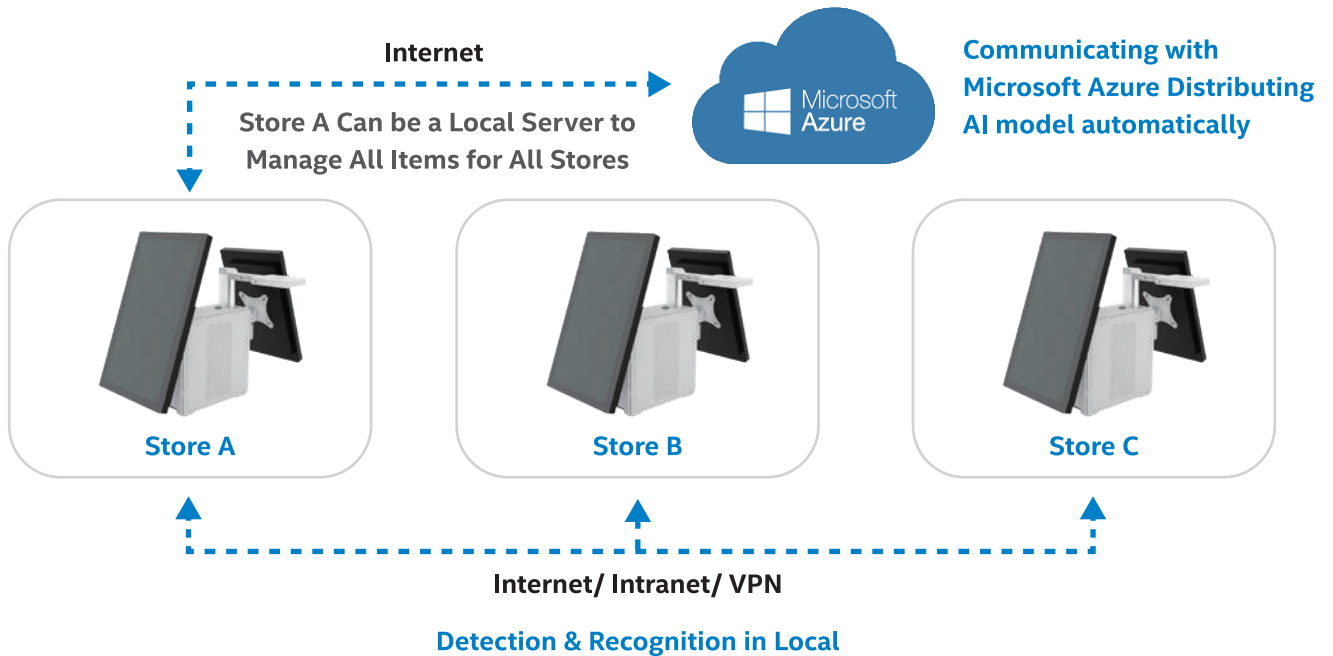**BMX-P54S-Q17K**
Mini Server with 4 hot-swap drive bays

RENITY AIR DC

Easy to Use
only need Five steps

- **Easy to Maintain & Deploy**
- **AI Training without Experts**

①	②	③	④	⑤
Take 3 Photos	AI Training in Cloud	Auto AI Deploy	Quick Identification	Correct & Improve

Product Architecture

Internet

Store A Can be a Local Server to Manage All Items for All Stores

Microsoft Azure

Communicating with Microsoft Azure Distributing AI model automatically

Store A

Store B

Store C

Internet/ Intranet/ VPN

Detection & Recognition in Local

Product Benefit & Comparison

RENITY AIR		Others
Deep Learning	Algorithm	Compare with Color/ Sharp Characterizes
Cloud & Edge	Architecture	Edge Only
3 Photos Only	AI Training Request	Over 30 Photos
Pay As You Go	Training Cost	Annual/ Monthly Fee
Easy to Integrate with Existing HW	Cost of HW	Need to Replace a New Set

RENITY AIR DC
(Distributed Computing)
Flexible and Competitive Solution

RENITY AIR DC is a solution consisting of powerful AIB-NW01 and control devices, which is adaptable to a variety of use cases.
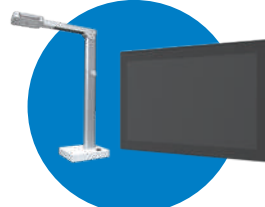
AIB-NW01

Support up to 4 Consoles

| CAXA0 | ARC | RIVAR | APC |

• Cost effective architecture
• Provides APIs to integrate into other systems

| AIB-NW01 GPU System Features

AIB-NW01
Compatible with NVIDIA® JETSON™ Nano & Xavier NX
High AI computing performance for GPU-accelerated processing
Ideal for intelligent edge applications
USB3.0 Type A x4 / Gigabit LAN x1 / RS232 & RS485 x2 / HDMI x1

All in one semi-self ai checkout solution

In Japan, many bakeries have used RENITY AIR, and the checkout process now takes only four steps.

1 Place the bread under the lens

2 In less than one second, RENITY AIR is able to recognize objects

3 Make sure the product item and checkout amount are correct

4 Complete checkout with the semi-selfcheckout machine

Success & Use Cases

Bakery
- Reduce employee training time
- Improve employee working efficiency
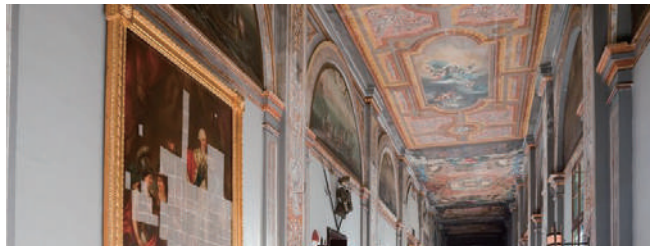- No more queues and shorter checkout times

Food Delivery
- Detect Product and Recognizing Receipt in One Step
- Check order items and product
- Keep accurate records

Supermarkets
- Easier to integrate with POS system
- Detect Product and Measure Weight in One Step
- Keep accurate record for Type, Weight, Date/Time and Photos

Museum
- Accurate and Fast to recognize an item
- Only need a short period of time for training
- Keep accurate record for Name, Date/Time and Photos

Industrial Maintenance
- Detect tools and Compare with task in One Step
- Low learning curve for supporting technician
- Improve stable maintenance quality does not depend on the experience of the technician.

Surgery Room
- Supporting the preparation process
- Detect tools and Comparison in One Step
- Keep accurate record for Tool pack, Date/Time