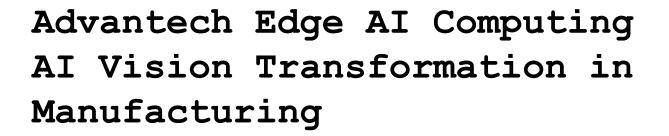
ขับเคลื่อน [องค์กรอัจฉริยะ] ด้วยพลังของ IT และ OT













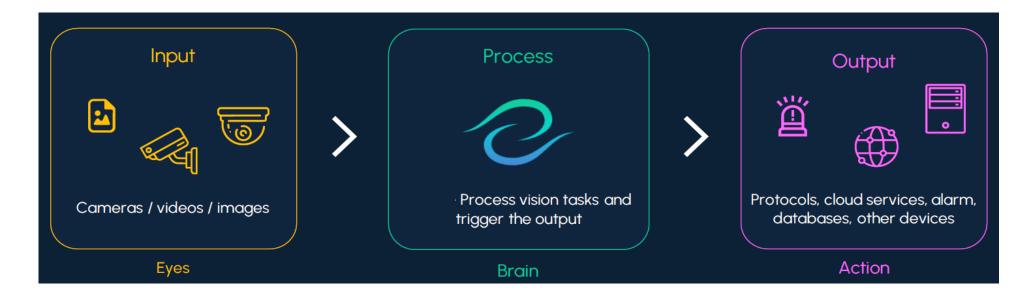




Simplify edge-based automation with AI Vision. No code, real-time results.

Purpose:

To receive, integrates and process visual data from the cameras then output the processed information or commands to the connected hardware or services.













Input

AI IN ACTION

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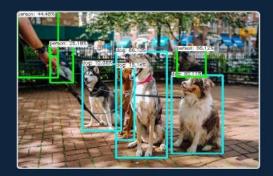
Zene

Data from the input



Read data from an image file from the Zene server local filesystem.

Process with a vision tool



Processes the image data to detect "dog" and "person" within the image.

For this case it detects 4 dogs and 3 people.

Check conditions and triggers the outputs

Let's say we have set the following conditions:

If detected:

- ≥1 dog
- = 0 person

Then:

Trigger alert

Else:

Send message

For this image, with the predefined conditions, Zene will run the "Else" box. Which will send the message as the output.





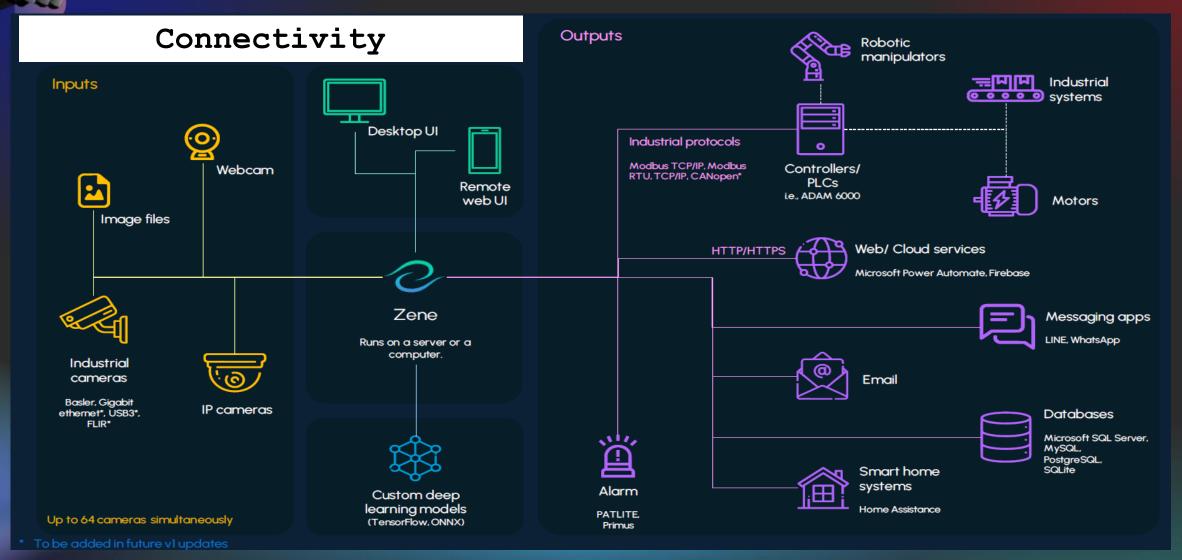








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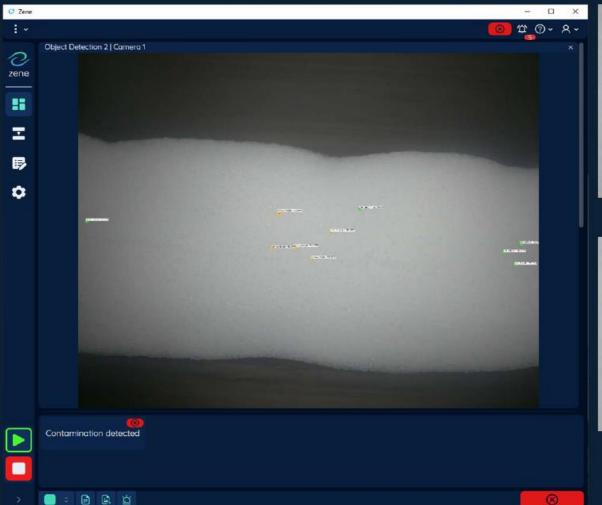
Pellet QC + Alerting

Customer:

UBE Group (Thailand)

A real-time contamination detection, alerting and data collection system for white pellets fertiliser.

The system ensures the quality of 455 tons of product worth 4.7 million THB daily and has been in operation since March 2021.





Original image frame



Detected image frame















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Vision Task Sample



Contamination Detection

Example products:

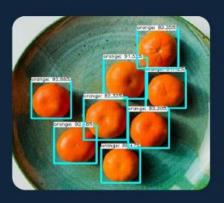
Dry chemicals (Fertiliser, Synthetic Rubbers (BR), Nylon, ABS, EPS, PE, PS, PVC, PP, SBR, S-SBR. etc)



Defect/ Anomaly/ **Quality Detection**

Example products:

Food, Processed food, Beverages, Electronics, Machine parts, etc.



Counting objects

Example products:

Consumables, containers, machine parts, etc.



Fire and Smoke Detection

Example uses:

Outdoor fire detection using cameras













Reva – Overview

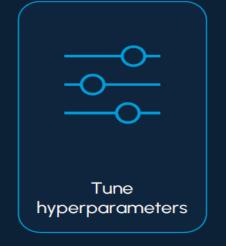
Your private AI lab. Label, train, export, and manage models, all without code.

Purpose:

To manage, label, tune and train machine learning model and export them to Zene, Nara or other 3rd party services.



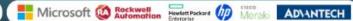














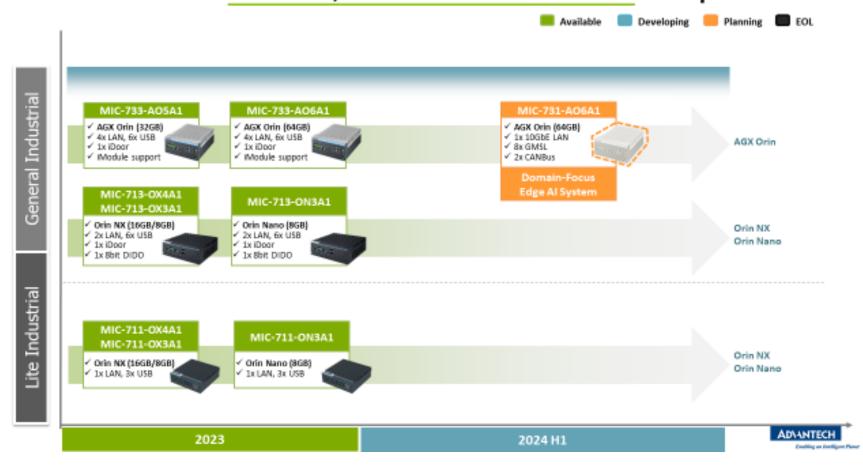






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MIC-AI General/Lite Industrial Product Roadmap

















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EPC-R7300

From Development to Production — The Industrial PC Solution Powered by NVIDIA Jetson Orin Nano/NX

2023, Q3

ONGEVITY 2032, Jan.

Features

High-Performance AI Computing for Edge Applications

- . Powered by NVIDIA Jetson Orin Nano/NX, optimized for Al Inference.
- Integrated Phison aiDAPTIV Technology, enhancing AI model execution efficiency.
- Supports LLMs, VLMs, and VITs for advanced Al workloads.

Compact & Modular for Flexible Deployment

- Space-saving low-profile chassis: 173 × 152 × 55mm.
- Modular expansion slots allow easy customization for different workloads.
- Optimized thermal management ensures sustained high performance.

Extensive I/O and Expansion Options

- M.2 slots for NVMe storage and wireless connectivity (Key M, Key E, Key B).
- Diverse rear I/O configurations, including GPIO, RS-232/422/485, and 4x GbE
- Optimized connectivity for AloT, industrial automation, and robotics.

Robust Industrial Design for Harsh Environments

VIIIs

- Wide operating temperature range: -20 ~ 70 °C, ensuring reliability.
- 9 " 24V wide power input, adaptable to industrial power systems.
- Vibration resistance up to 3.0 Grms, suitable for rugged applications.

Application-oriented software integration

- . Advantech DeviceOn for remote edge device monitoring and Allifecycle management.
- ROS2 & EdgeAl SDK support, ideal for robotic control and machine vision applications.
- Long-term JetPack OS support with regular security and feature updates













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THANK YOU









