iVision Suite Solution

Optimize Safety and Operations Management with Intelligent Video Analysis

/ People Counting

/ Facial Recognition

/ Object Detection

staff3

staff2

staff1

Staff15
female
27

Helmet

Vest

Vest

iService **PeopleCount**

iService **FaceMatch**

iService **ObjectVA**

Vision AI

iVision Suite Solution

iVision Suite is a cutting-edge intelligent video analysis solution based on AI video analysis technology to provide people detection (PeopleCount), facial recognition (FaceMatch), and object recognition (ObjectVA). We accelerate people detection development with Intel® OpenVINO™ and conduct object recognition image training with Intel® Geti™.

Advantech installs our video analysis software on an AI edge computer, which can be quickly deployed on site through the low-code platform and it can easily be integrated with existing third-party services.

Enhanced Management Efficiency with SignageCMS
All video analysis sources within the iVision Suite are seamlessly integrated with SignageCMS. This integration allows for the real-time display of data, detected images, and anomaly alerts on digital signage, significantly boosting management efficiency.

Strengthened Safety through iFactory EHS Dashboard
Connect iVision Suite to the iFactory EHS dashboard for comprehensive tracking and analysis of abnormal events. This strengthens safety management by providing detailed insights and analytics.

Architecture

SaaS **iService** Cloud Platform Private Cloud

Supports Public and Private Cloud Deployment

| Warehouse AI Video Analysis | Safety Management | iService **PeopleCount** | iService **FaceMatch** | iService **ObjectVA** | iService **SignageCMS** | PPE Detection | Crowd and Regional Control |

AI Video Analysis

Interactive Digital Signage

OpenVINO™   intel GeTi

Counting & Queuing   Facial Recognition Access Control   Vision AI Safety

Cars Counting | Dwell Time | Access Control | Attendance Taking | Device Authentication | PPE | Intrusion Detection | Occupancy | Restricted Area Control

*Enhance people detection development with Intel® OpenVINO™ and conduct object recognition image training with Intel® Geti™.

AI Video Analysis Models

PeopleCount
PeopleCount utilizes vision AI technology to detect people. It can be applied to people counting, occupancy management, and smart queues.

FaceMatch
FaceMatch is a facial recognition platform that enables users to identify facial profiles with 99.8% accuracy. It can be applied to attendance taking, access control, and device authentication.
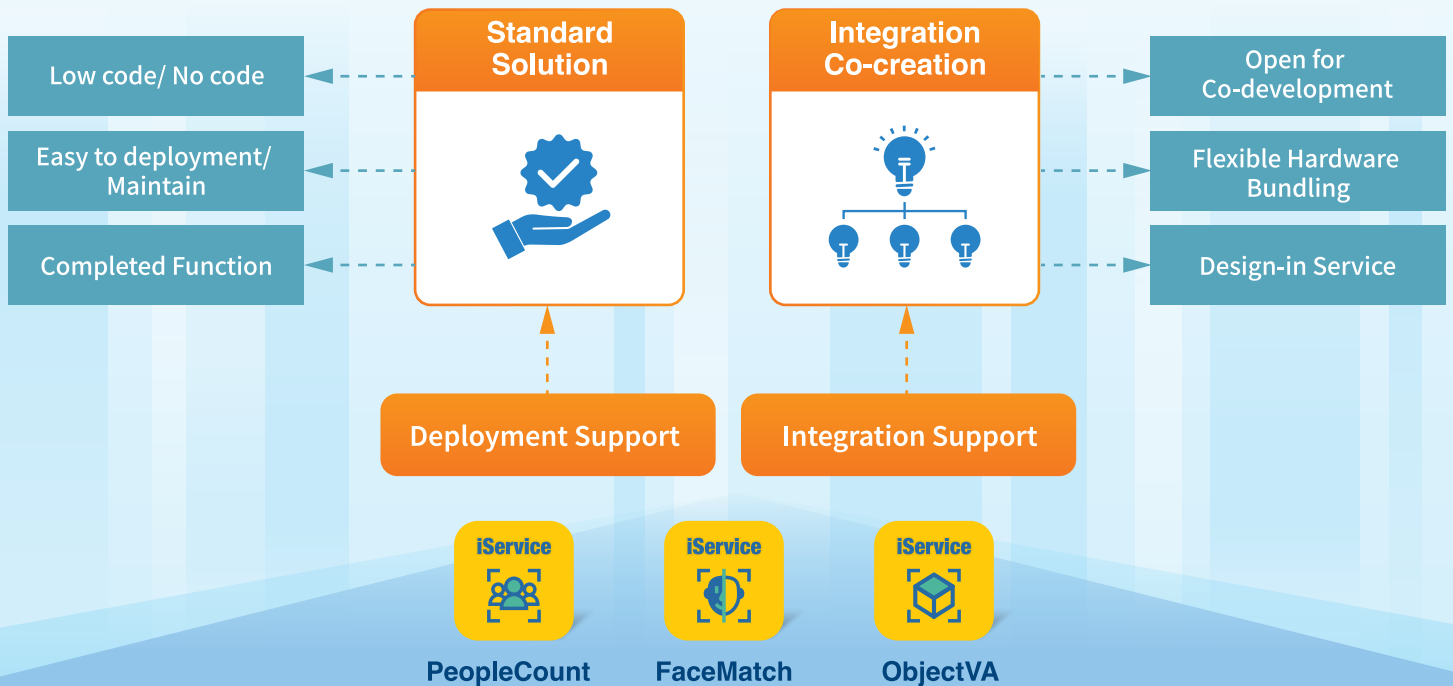
ObjectVA
ObjectVA is a low code platform for object detection and recognition. Through object recognition training, it improves personnel safety and management efficiency.

Scenarios

Vision AI Safety

Intrusion Detection

People Counting

Device Authentication

Access Control & Attendance Taking

Cars Counting

Solution Benefits

| Low code/ No code | Standard Solution | Integration Co-creation | Open for Co-development |

Low code/ No code

Easy to deployment/ Maintain

Completed Function

Standard Solution

Integration Co-creation

Open for Co-development

Flexible Hardware Bundling

Design-in Service

Deployment Support

Integration Support

iService **PeopleCount**

iService **FaceMatch**

iService **ObjectVA**

High Accuracy over 99%	Industrial Level HW + SW	Rich Software Functions	Scalable Design
Taiwan AI Engine	Cost Effective	Co-Design Ability	Project Readiness

iVision Suite Solution

▍People Counting Solution Package

Smart Counting Camera	AI People Counting	AI People Counting Integrated with Object AI
• All-in-One device • Device for data capture, analysis and delivery • Easy installation and configuration via web browser • Excluding/including children • Suitable for indoor and outdoor entrances	• Existing cameras can be used to connect RTSP streams to the vision AI edge for people counting and occupancy control • Suitable for complex entrances and exits people counting • It can be applied to occupancy, smart queue and intrusion detection	• Existing cameras can be used to connect RTSP streams to the vision AI edge for people counting, with advanced capabilities for counting specific objects, such as worker's vest • Differentiate between staff members and regular people • Object ai image recognition training is required

Camera: UCAM-130 **Software**: PeopleCount	**Vision AI Edge**: UBX-110 **Software**: PeopleCount	**Vision AI Edge**: UBX-110 **Software**: PeopleCount、ObjectVA

▍Facial Recognition Solution Package

IP Camera (IP Camera + FaceMatch Edge)	FR tablet (FR tablet + FaceMatch Manager)	AI Camera (AI Camera + FaceMatch Manager)
• Existing cameras can be used to connect RTSP streams to FaceMatch edge • One FaceMatch edge supports 6 camera sources • FaceMatch Manager is required for data integration when the video sources are more than 6 • Suitable for attendance taking	• FR tablet with built-in facial recognition engine • Support dual authentication with RFID card readers • FaceMatch Manager is required for data integration • One FaceMatch Manager supports 256 FR tablets • Supports 3D anti-counterfeiting mechanism • Suitable for access control	• AI camera with built-in facial recognition engine • FaceMatch Manager is required for data integration • One FaceMatch Manager supports 256 AI cameras • Supports 3D anti-counterfeiting mechanisms • Easy to deploy at large venues

FaceMatch Edge/ Manager: UBX-110 **Software**: FaceMatch	**FaceMatch Manager:** UBX-110 **Software**: FaceMatch	**FaceMatch Manager:** UBX-110 **Software**: FaceMatch

ADVANTECH
Enabling an Intelligent Planet