

An easy-to-use AI toolkit and SDK
for computer vision, model training, and inference.



Trainer

Mark images, create and train tasks,
verify training tasks.



Scheduler

Schedule and train multiple tasks.

Version : 1.5.0

ASUS IoT

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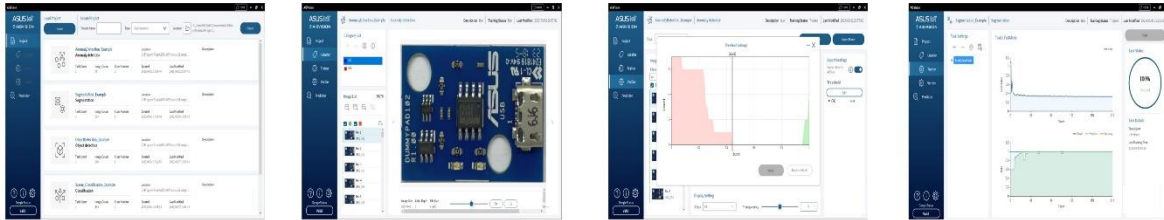
ASUS IoT AISVision is an easy-to-use toolkit that allows developers to create computer-vision capabilities using ASUS AI techniques. With three working modes — **Trainer**, **Runtime** and **Scheduler** — the AISVision toolkit can be used in AI training, inference and batch-training for utilization.

This toolkit **Trainer** covers the related knowledge developers need to create an AI model in just a few minutes. It enables specialist knowledge to remain confidential within the domain while empowering developers use the toolkit to create AI applications.

The toolkit also provides **Runtime** mode that can be used as an inference engine with either GPU or CPU, or both, to obtain instant data for analysis. The data can be exported for further analysis, visualization, database management or services related to the edge. **Scheduler** mode be used to train pre-defined tasks in a batch for better utilization of trainer machine.

Intuitive, simple, and quick project set-up

4 steps to finish AI model training and verification with zero-code AI model training.



Choose model

Label image

Train model

Verify model

Features and benefits

High precision diverse algorithms

- ✓ Supervised and Unsupervised learning
 - ✓ Unique data-augmentation technology enables accurate training with few samples.
 - ✓ Training speed optimization of Segmentation and Classification
 - ✓ Configurable Hyperparameter Setting

Highly flexible inference architecture

- ✓ Supports inferencing by either GPU or CPU — or both.
 - Backed by NVIDIA® GPU and the Intel® OpenVINO™ framework, empowers efficient, high-accuracy inferencing.
- ✓ Supports RTX 40 Series

Model training and validation

- ✓ No-code model training.
- ✓ Model Validation and tuning
- ✓ Friendly Model Verification Report and Simulate Prediction Report

User-friendly software development

- ✓ ASUS Design UI/UX
- ✓ Online software updates
- ✓ OS : Windows 10&11 (64 bit)
- ✓ Language :Traditional Chinese, Simple Chinese, and English
- ✓ API support : C, C++, and C#

Intuitive labelling tool

- ✓ Easy-to-use and intuitive integrated labelling, including pen, polygon, ellipse, rectangle and line tools

Unique scheduler features

- ✓ Allows the model to be trained centrally, for better utilization of trainer machine

System Requirements

AISVision AI Toolkit for Trainer

Processor	12th Generation Intel® Core™ i7 (recommended)
DRAM	16 GB or more
O.S.	Windows 10&11 (64 bit)
USB	1 free USB port (for license dongle)
Graphics card / GPUs	NVIDIA® GeForce® RTX4070 (recommended) NVIDIA® GeForce® RTX2060 VRAM 12GB (minimum)
Required system storage	8GB or more

AISVision AI Runtime for Inference

Processor	12th Generation Intel® Core™ i7 (recommended)
DRAM	16 GB or more
O.S.	Windows 10&11 (64 bit)
USB	1 free USB port (for license dongle)

Inference Engine	Intel OpenVINO™	Graphics card / GPUs
GPUs	No need	NVIDIA® GeForce® RTX4070 (recommended) NVIDIA® GeForce® RTX2060 VRAM 12GB (minimum)
Storage	2.5GB or more (AISVino)	300MB or more

Developer

CUDA: cuda_11.1.0

CUDNN: Cudnn8.2.1

Visual Studio 2017

Supported languages : C/C++, and C#

Ordering Information

- Model: AISVision AI Toolkit (Include Trainer and Runtime) (P/N: 90IM0050-M2TB00)
- Model: AISVision AI Runtime (P/N: 90IM0040-M2TB00)

Visit ASUS IoT Web site for further information : <https://iot.asus.com/products/AI-software/AISVision/>