AISVISION

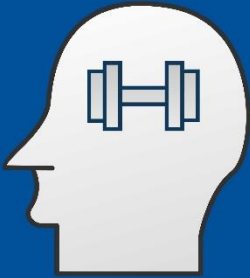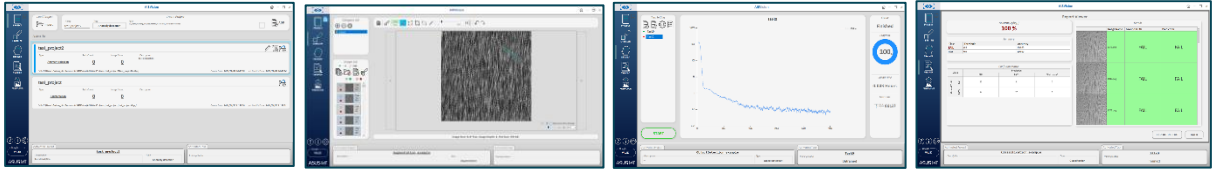**TRAINER** **SCHEDULER**

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

ASUS AISVision is an ease-of-use toolkit covering ASUS AI techniques for the application of Machine Vision. AISVision provides three working modes Trainer, Runtime, and Scheduler for AI training, inference and batch training scenarios.

This toolkit covers some of the basic knowledge developers need to create an AI model in just a few minutes. Developers can use the toolkit to retrain their models using new data inputs, keeping the domain know-how in their own field. The toolkit also provides run-time modes that can be used as an inference engine to obtain in-line data for analysis and export the data for further analysis, visualization, database management, or services related to the Edge or Cloud. The Scheduler mode can be used to train pre-defined tasks in a batch for better efficiency.

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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

Unique MPF2 receipts

✓ **Supervised learning** and **unsupervised leaning** for vertical application.
- **M**ultiple object classification
- **P**recise object segmentation
- **F**ast object detection
- **F**ast training anomaly detection

Report wizard and training project scheduling

✓ Provide Html format report export for different model training, and view the data collection function to review the use of model training under different models.
✓ Multiple training projects scheduling for batch process.

User-friendly software development

✓ Unique re-train mechanism to ensure data privacy.
✓ Friendly software update mechanism.
✓ Strong API support, including C, C++, and C#.

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System Requirements

Trainer

- CPU : Intel® Core™ i7
- DRAM : 16 GB or more
- O.S. ：Windows 10 (64 bit) Professional
- USB ：1 free USB port (for license dongle)
- GPU : NVIDIA® GeForce® GTX1070, NVIDIA® GeForce® RTX2060, NVIDIA® GeForce® RTX3070 6GB above
- Required system storage ：8GB

Inference / Run-time

- CPU : Intel Core i5 (minimum) / Intel Core i7 (recommended)
- DRAM : 16 GB or more
- O.S. ：Windows 10 (64 bit) Professional
- USB ：1 free USB port (for license dongle)
- GPU : NVIDIA® GeForce® GTX 1070, NVIDIA® GeForce® RTX 2060 SUPER™ 6 GB above
- Required system storage ：200 MB

Developer

- CUDA: cuda_11.1.0_456.43_win10
- CUDNN: Cudnn8.2.1
- Visual Studio 2017
- Programming language: C/C++, and C#

Ordering Information

- Model: AISVision AI Toolkit
(P/N: 90IM0050-M2TB00)

- Model: AISVision AI Runtime
(P/N: 90IM0040-M2TB00)

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