

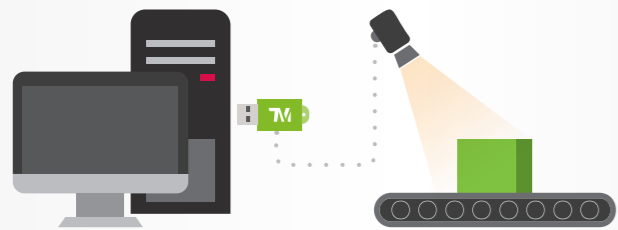
AI Vision- TM AI+™ AOI Edge

The smart function software that helps you to deploy TMvision™ to all required spots in the factory

If you have requirements for setting up pure visual working areas in the factory or require multiple cameras in a single visual working area, TM AI+™ AOI Edge will be the best solution for you to optimize your implementation costs while fulfilling visual function needs.

Features

- Easy integration of TM AI+™ to improve the precision and width of AOI inspection
- Support TM Plug&Play™ camera to save the time of camera integration
- User-friendly TMflow™ interface is easy to master. No need for experienced workers to learn new sof-



TM AI+™ AOI Edge can be installed on any personal/industrial computer at production lines. After connecting the computer to external camera, the user can perform vision tasks like item recognition, image enhancement and measurement through TMvision™.

Installation requirements

Installation requirements	
TM AI+ Software version	Ver. 2.14
Hardware requirements	
Operating System	Windows 10
CPU	Intel i7 Gen 7 or above
RAM	32 GB
Graphics cards	Supports NVIDIA GPU micro-architectures Maxwell, Pascal, Volta, Turing, and Ampere. Followings are recommended: NVIDIA GeForce RTX 30 series (3060 12GB or above) NVIDIA RTX professional GPUs (A2000 12GB or above) NVIDIA Quadro RTX professional GPUs (4000 or above)
Storage	2TB (SSD Recommended)
Communication interface	Ethernet
Language support	EN, TW, CH, DE, ES, FR, JP, KO, PT, TH, VI
Additional Notes	Linux on VM is not compatible

TM AI vision solution



Evolve Your Robot Vision with TM AI+™

All rounded Machine Vision Capability

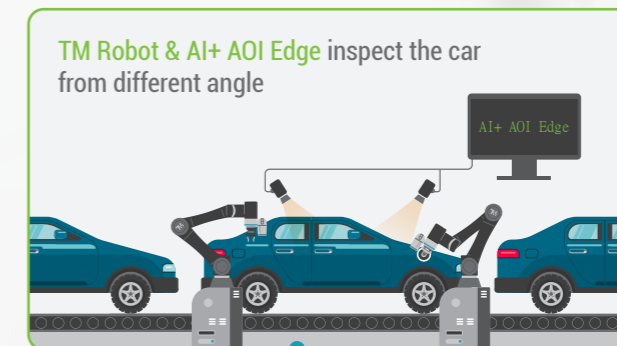
The embedded vision of TM Robot includes our basic vision functions such as positioning, barcode reading, OCR, etc. With AI, it can execute more difficult tasks like classification, detection, segmentation and can be widely used in inspection applications.

Graphical User Interface

Both vision task editing and AI model training functions is designed with a graphical interface that is easy to learn and operate.

The Perfect Combination of Arm, Vision and Brain(AI)

Using embedded vision, TM Robot can help collect the image data necessary for your AI model training. A trained AI model can be easily imported into TM Robot without coding effort.



TM Robot & AI+ AOI Edge inspect the car from different angle

Image

Upload car component images to server for AI model training

Download AI model for inference to robot and AOI Edge

TMAI+ Training Server

User login to TM AI+ Training Server to perform image annotation and AI model training

Classification

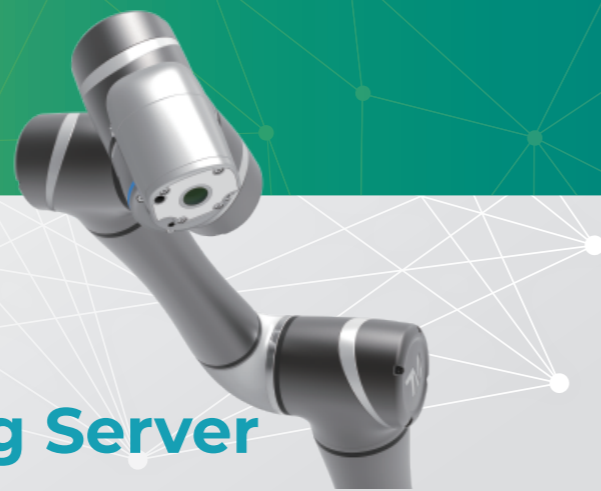
Aluminum Iron

Segmentation

Scratches Stain

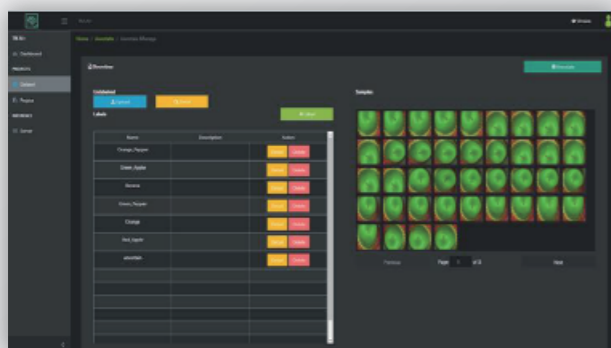
Detection

Rear door Front door
Tire Tire



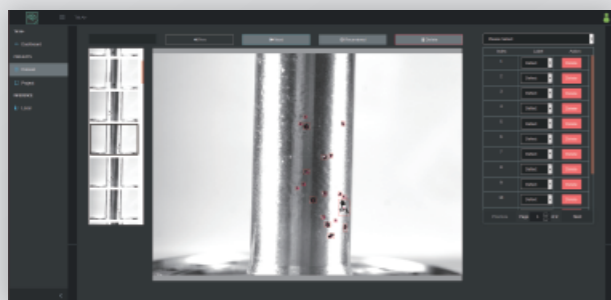
AI Vision- TM AI+™ Training Server

TM AI+™ Training Server is a part of the TM AI+™ solution that can help you manage image data, adjust model training parameters and perform AI model evaluation.



Secure Your Data

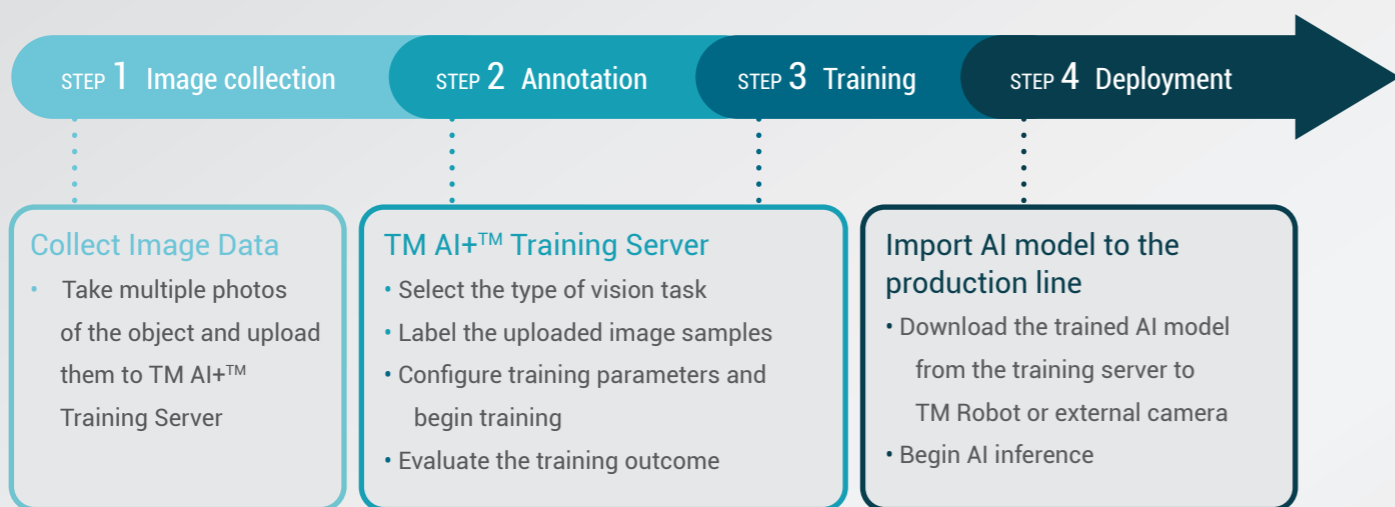
The software can be installed on the server within enterprise buildings or factories. All image data used for AI model training are saved locally instead of cloud to prevent data leakage.



Train Your AI Model Effortlessly

As a browser-based software, users can access TM AI+™ training server via web browser from any location. And the graphical UI allows users to train AI models with ease.

4 Steps to Train an AI Model



Application Examples

Assembly Inspection



- Checking if the tires are wrapped with PE film



- Checking if all wires are connected correctly

Classification

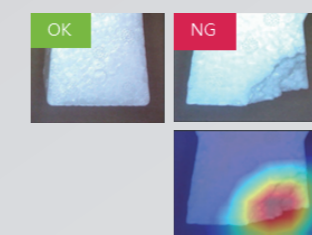


- Sorting different materials for wooden furniture

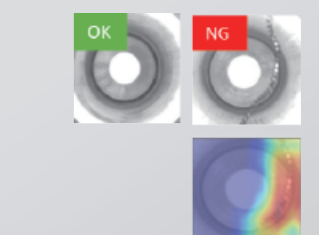


- Recognition of pizza flavor and crust

Defects Inspection



- Identifying objects with damage on the edge

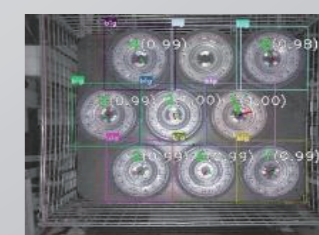


- Checking if there are metal scrap on the surface

Counting / Detection



- Counting the amount of the object in the tray



- Objects detection and 3D positioning

Scratches /Cuts / Dents Inspection



- Checking scratches on DRAM gold fingers



- Checking the dents on metal parts

IAS
AUTOMATION®

TM
ROBOT



Teléfonos:

800 841 7199 y 81 1766 9959

Av. Arco Vial No. 199, calle 3 interior I, Prologis Park

Apodaca, Apodaca, N.L., México C.P. 66627

contacto@cobot.mx

MÁS INFORMACIÓN EN:

WWW.COBOT.MX

CONTÁCTANOS:
 **81 1820 5949**

    **IAS AUTOMATION**

IAS AUTOMATION DISTRIBUIDOR AUTORIZADO EN MÉXICO

TM TECHMAN ROBOT