



Mech-Vision Machine Vision Software

Intuitive vision software for complex vision applications

Intuitive solution-oriented GUI Built-in industry-leading algorithms Various vision tools integrated Extensive solution library Easy setup & fast deployment

All-in-One Platform Software

The extensive Mech-Vision software manages all project steps, from

configuration to deployment, in one

system.



Discover the Benefits of Mech-Vision

Mech-Vision is a cutting-edge machine vision software designed to tackle the toughest vision challenges. With a solutionoriented user interface and many functional tools integrated, users and system integrators can realize easy setup and fast deployment. Driven by robust algorithms, Mech-Vision helps users solve simple and complex vision tasks, from identification and localization to inspection and measurement.



Advanced algorithms

Mech-Vision has an array of robust algorithms built in. Our 3D matching algorithms provide fast recognition results in less than 1 second, boasting a 99.8% accuracy rate.



Innovative tools and templates

Many tools make your setup and deployment more accurate and efficient, such as the General Workpiece Picking Template, Pose Adjustment Tool, and Error Analysis Tool.



Easy-to-use production interface

Users can set up a production interface in just two steps. The graphical production interface allows users to monitor each stage of production and check the results in real time.



Rich solution library

Our solution library offers an array of proven real-world cases across various industries, providing ready-to-use resources for understanding, deploying, modifying, and maintaining applications with ease.

Robust Vision Algorithms Speed Up Workpiece Recognition



2D matching

Achieve accurate sub-pixel matching of objects, even in challenging conditions with low contrast and high noise levels.



3D matching

Easily identify objects, even those with subtle features, whether they are tightly or randomly stacked, or located in hard-to-reach areas.



Novel objects picking

Predict the pick points of any object without data collection and training.



Inspection & measurement

Meet a variety of inspection and measurement needs with built-in feature extraction tools and self-developed caliper tools.



2D deep learning

Robustly and accurately identify overlapping or complex objects, even those with difficult-to-detect features and intricate textures.



3D deep learning (Mech-DLK Sim2Pick)

Streamline bin picking with a cutting-edge, labelingfree deep learning technology. Accurately train models, effortlessly handle challenging objects, and efficiently clear the bin.

Production Interface (new) Optimizes Your Production

Monitor

The production status is displayed on the interface for you to accurately locate the fault. It also displays recognition results, deep learning results, and picking results for your fast check.



Control

Users can customize the model for workpieces of various specs and shapes, allowing for flexible adaptation to various production lines.



Maintenance

Production logs, alert records, and abnormal data packets are available for quick troubleshooting, improving production stability and reducing maintenance costs.



Quickly Build Your Projects with General Workpiece Picking Template

Set up your machine tending project in under 10 minutes with a simple four-step process.



Extensive Solution Library for Faster and Easier Deployment

The new Solution Library makes it easy to browse **real-world projects and cases**. With its intuitive graphical interface and preinstalled project templates, you can effortlessly choose and optimize existing applications that best fit your needs, enabling quick and flexible deployment of your new project.



Easy Robot Communication Empowers Your Project



1,000+ robot models

Browse the world's largest robot model library and effortlessly optimize your robot's path.



Communication integration can be completed in as little as 1 day.

Easy integration

Manage communication integration – easily and without technical support.

3D VISION & AI FOR ROBOTS AND MORE



Get the most from Mech-Mind's 3D vision - get in touch with us!

Website: www.mech-mind.com E-mail (business): info@mech-mind.net E-mail (PR & marketing): marketing@mech-mind.net

Learning guidance to deploy your vision application STEP BY STEP, please visit

Documentation: docs.mech-mind.net Online community: community.mech-mind.com