# Collection Pro



## Description

- Automated sorting/collection of microscopic substances

## Features

- This system utilises image/position analysis technology to automate the sorting, collection, and accumulation of minerals and other small particles with efficiency and precision.
- Empowered by advanced image analysis technology, this system can automatically determine extraction conditions for dispersed microparticles, sort them, and move them to designated locations with precision
- Through *Deep Learning* AI-based image extraction, detectability of objects can be improved
- Facilitates the automation of sorting and accumulation, previously done by brutal force

# Collection Pro : Automatic System for Collection and Sorting of Micro-Grains

- Automated grain sorting and collection reduces separation burden on researchers.
- Combination of imaging processing technology and Axis Pro, Micro Support micromanipulator can observe, classify, separate and collect objects by automatic program.
- Screening test for contamination on wafer, glass and membrane filter can be operated as contamination analyzer.
  ( Image processing, separation, data acquisition, collection of coordinates and pictures)



| Target Industry | Mineralogy, Geology |
|---|---|
| Applications | Separation and collection of classified objects in mineral<br>Separation and collection of classified contamination in powder<br>Separation and collection of designated size objects in particles |
| Object size | >30μm～  (depending on sample situation) |
| Base set | Axis Pro + Dedicated software + Vacuum Absorption<br>with electromagnetic valve |