eLabNext launches a new AI image processing tool – in collaboration with Modicus Prime

eLabNext brings self-service *AI (Artificial Intelligence)* technology to the forefront of research and process development by launching a new add-on in eLab Marketplace. Install Modicus Prime to extend the functionality of your ELN and optimize your image processing power through deep analyses of anomaly detection and enhanced decision making.

Deep analytics with AI technology

Developed using mpVision features, this add-on obtains deep analytics through AI technology. Eliminate **labor-intensive** pressure for labs that need to analyze thousands of images in their daily research, such as Microscopy. Through AI, results are delivered faster and more comprehensively.

How it works

Users upload images of particulates – ranging from biologics to crystals – and **train the AI** to identify their unique image content. The result is real-time processing of **any image data** for a comprehensive understanding of sample content.

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mpVision add-on features:

- **Particle Detection and Image Quality Control**. The Image Quality Control panel gives end users complete control over both detected and self-labeled particles. End-users determine the sensitivity of the particle detection algorithm, offering wide applicability across control runs, DOE's, medical devices, commercial processes, and much more.
- **Image Labeler**. Customize particle labeling for AI training to enable the self-identification and self-labeling of particles in each image. Training data is generated for new particle identities with the Image Labeler Interface.
- **AI Processing**. Automated processing pipelines are provided for AI Training and AI Inference. The AI Training interface provides a real-time update on the neural network's learning trajectory. AI Inference classifies particles on unseen data, giving the end-user the option to choose from the library of their self-trained models.
- **Analytics Reporting and Visualization**. The particle statistics and classification results are compiled in the Reporting Interface. Additional reporting format options (including CSV and PDF) may be generated. Customizable client-driven visualizations are provided for desired data insights. Examples include comparisons between medical devices, or production sites for scale-down analysis.

Research smarter with the new Modicus Prime mpVision add-on. Available for use with eLabJournal and eLabInventory.

A Free Add-on Available Today

Extend the functionality of eLabJournal with the AI-powered image processor from Modicus Prime. The eLabNext add-on with Modicus Prime is now available free of charge in eLab Marketplace. Not yet using eLab? Try the add-on with our 30-day free trial. Do you have questions? Our team is happy to help!
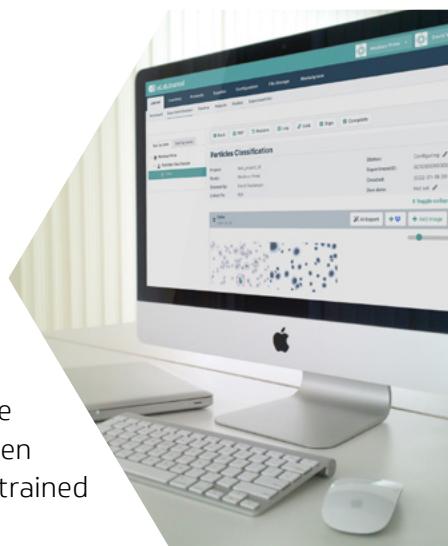
About Modicus Prime

Modicus Prime specializes in the creation of custom AI/ML (Machine Learning) solutions for life science data based on the parameters set by your life science laboratory. Their self-service AI Particle Classification tool, mpVision, solves challenges in anomaly detection, monitoring, and enhanced decision making.

www.modicusprime.com

About eLabNext

eLabNext enables laboratories to improve the efficiency and quality of research by providing comprehensive and flexible lab information management software. From offices in the US (Boston) and Europe (The Netherlands), we serve customers worldwide. Your partner in lab digitization. eLabNext is a brand of Bio-ITech BV, part of Eppendorf group.

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