

Imaging with the Nexcelom Celigo loaded by the PAA S-LAB™ Plate Handler

S-LAB AUTOMATED PLATE HANDLER



Introduction

Quantitative microscopy relies on imaging of large cell numbers requiring integrated tools to allow an increase in the scale of cell biological investigations. Automation provides significant value as demonstrated by the rapid performance of multiparameter assays, enabling the generation of 10^8 individual physiological cellular measurements in less than one day, removing the limitations of accuracy, reproducibility and throughput caused by humans in all steps of the imaging workflow. Integrating the **S-LAB plate handler** with your cell analysis systems allows for significant walk-away time and continuous operation of your image based instruments – enhancing laboratory throughput and the reliability of data significantly.

Automated Cell Imaging/Counting

Whether you are looking at tumour cell migration, cell mediated cytotoxicity, ADC internalization or even 3D tumour spheroid analysis, the **Nexcelom Celigo Image Cytometer** shows great versatility with both brightfield and fluorescence imaging.

Summary

The **Celigo Imaging Cytometer** together with the **S-LAB plate handler** provide a proven integration platform that allows laboratories unattended sample analysis and easy scalability. This pairing is widely used in cancer research institutes, Pharma and Biotech accounts worldwide.

This benchtop imager accepts any SBS format plate, but often assays performed with these instruments require the ability to press a button and walk away, with the confidence in the plate handling system and the controlling software to complete the task. This is especially true if there are many plates or the kinetics of the assay involve extended timelines where the plate has to be moved from an incubator to the imager during the course of the assay.

Applications

- / Immune-Oncology: ADCC, CAR-T CDC, NK Cell death
- / Cell Migration & Invasion: Chemotaxis, Wound Healing, Transwell Migration, 3D Migration/Invasion
- / 3D models:
 - Invasion and Migration into ECM
 - Spheroid formation/viability
 - Embryoid Bodies, Patient Derived Organoids
- / Virology: Titre, Infectivity Ab Neutralisation, Viral Transduction, CAR-T Cell Mediated Cytotoxicity
- / Fluorescence Assays: Live & Dead assays, Apoptosis, ADC Internalization Transfection/Transduction.

S-LAB plate handling

PAA's S-LAB plate handling system is an entry level automation solution designed for easy installation and use. The S-LAB plate handler operates stand-alone, offering unattended loading and unloading of plates into your **imaging system** with full plate tracking. With a barcode reader and de-lidding functionality included as standard, the S-LAB plate handler offers a reliable, flexible and easy-to-use automation accessory.

Harmony™ user interface

PAA's Harmony user interface takes you through setting up your assay. Follow the process, review the entries, select run and walk away. The plates are automatically loaded into your **imaging system**. Harmony sends you a message when the batch is complete.

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