

# Ascent

## Automated Plate Handling



Automate your  
ZE5™\* Cell Analyzer

Propel Labs' Ascent Automated Plate Handling system expands the high throughput capabilities of the ZE5 Cell Analyzer, automating the loading and unloading of microtiter plates.



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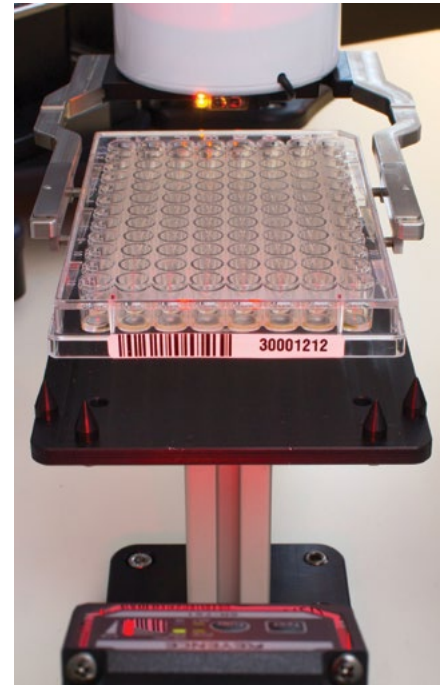
The Ascent, Propel Labs' robotic automation system for the ZE5 Cell Analyzer, allows unattended, continuous operation for up to 24 hours. Expanding the high throughput capabilities of the ZE5, the Ascent system loads and unloads microtiter plates from hotels or an incubator and includes barcoding capabilities for plate tracking.

## Integrated Ascent Hardware

- Store up to 45 plates in hotels at ambient temperature and humidity
- Lid handling station and barcode reader provide plate tracking throughout processing
- Custom table for mounting and calibration
- Collaborative robot arm certification assures operator safety
- Compatible with lidded or un-lidded 96 and 384 well plates and un-lidded 96 and 384 deep well plates
- Seamlessly switch between automated and manual operation of the ZE5
- UPS provides power monitoring and backup
- External waste system extends operating time of the ZE5

## Custom Ascent Software

- Sample clog detection and remediation:
  - Clog is detected
  - Operator is alerted by email
  - Option to unclog and QC
  - Skip sample and continue
- Time based scheduling for each plate
- ZE5 protocol assignment for each plate (including plots, stop conditions, speed, temperature control, agitation, etc.)
- Firmware controlled acquisition routines provide additional level of security for sample data
- Custom keywords for file tracking
- FCS 3.1 data export for acquired files to external server
- Ability to shut down automatically at completion
- Error alerts via email notification



## Optional Upgrades

- Incubator integration allows complete and precise environmental plate control
- Various hotel options for customization

\*ZE5™ is a registered trademark of Bio-Rad Laboratories

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