Ascent Automated Plate Handling

for the ZE5™* Cell Analyzer

The ZE5 Cell Analyzer incorporates a sophisticated plate sampling system designed for integration with automated plate loading systems. Its high throughput mode can screen a 96-well plate in <10 minutes while collecting high content data with minimal carryover (<0.05%). These ZE5 superior capabilities are now coupled with the Ascent, Propel Labs' robotic automation system for loading and unloading plates allowing up to 24-hour continuous acquisition of samples without constant user interaction or monitoring.

Key benefits of Ascent Automation:

- Sample clog detection and remediation:
  - Clog is detected
  - Operator is alerted by email
  - Option to de-clog and QC
  - Rerun or skip sample and continue
- Store up to 45 plates in hotels at ambient temperature and humidity. Optional incubator storage allows precise environmental plate control.
- Zero tolerance for incorrectly identified wells
- A de-liding station and barcode reader are standard providing plate tracking throughout processing. A handoff nest from automated sample stations is optional.
- Compatible with lidded or un-lidded 96, 96 deep and 384 well plates.
- Seamless switching between automated and manual operation of the ZE5.
- Optional external waste system to extend the operation time of the ZE5.
- Ascent software allows:
  - 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 provides additional level of security for sample data
  - Custom keywords for file tracking
  - FCS 3.1 data export for acquired files
  - Ability to shut down automatically when the programmed runs are completed
  - Error alerts via email
- A standard UPS provides power monitoring and backup

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