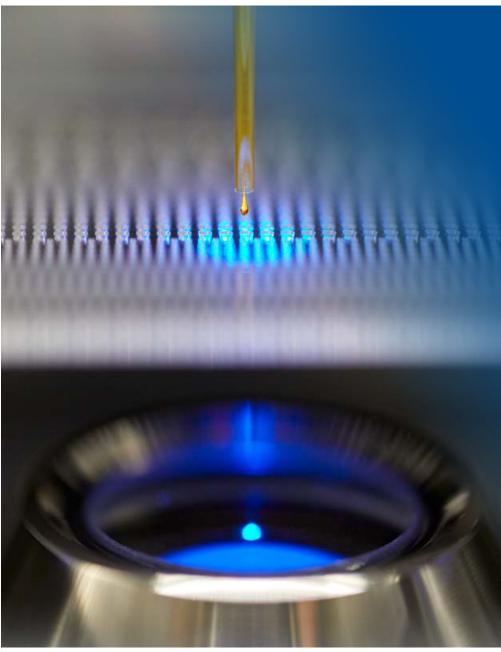
ARRALYZE[®] CellShepherd The Ultimate Workstation for Dispensing, Imaging, and Isolating Single Cells











Unlock the Path for Discovery – With the Cutting-Edge ARRALYZE[®] CellShepherd

The ARRALYZE[®] CellShepherd offers innovation, ease of use and flexibility to meet the needs of your research. Discover what was hidden before.

Key Features

1. Gentle Dispensing

Dispense precisely into glass nanowell arrays.

- Automated dispensing of single cells, cell populations and particles
- Gentle as hand pipetting for high cell viability
- Gain confidence by immediate well imaging and recording

2. Fast Imaging

Monitor your cells in a fully controlled environment.

- High quality images in real time
- Conduct time-resolved measurements with ease
- Brightfield and three fluorescence channels

3. Precise Isolation

Isolate the content of wells while maintaining viability.

- Gently extract single cells and supernatant
- Non-destructive process preserving cell integrity

4. Fully Climate-Controlled Environment

Achieve physiological-like conditions for your cells.

- \bullet Controlled settings for temperature, humidity and CO_2 levels
- Flexible in (co)-culturing for hours and days



5. Sterile Interior

Safety and protection in a compact footprint

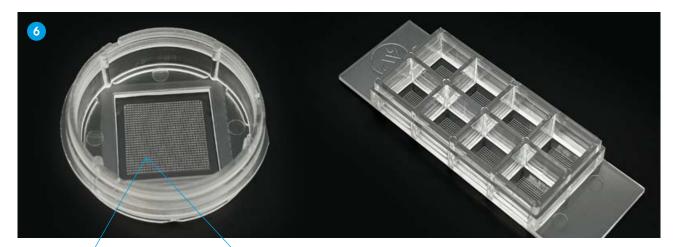
• Integrated biosafety enclosure without compromising performance

Open the Door for New Insights

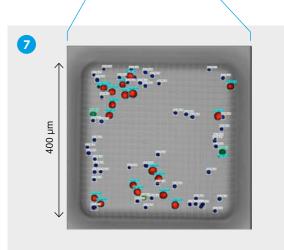
With ARRALYZE[®] CellShepherd – the ultimate workstation for dispensing, imaging and isolating single cells.

Precise Dispensing

Gentle dispensing of cells with high viability into nanowells.



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6. Miniaturized Arrays Made From Glass

Conduct thousands of experiments simultaneously in glass nanowells.

- Start your research with minimal cells from precious samples
- Low consumption of reagents to reduce costs
- · Inert substrate with highest optical quality

7. Al-Driven Analysis

Leverage AI to analyze thousands of images to gain valuable insights and enhance decision-making.

- Particle & cell tracking and counting
- Reveal hidden data not readily apparent

8. CellShepherd Software

Intuitive software for operation and analysis.

• Ease-of-use and user-friendly navigation

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• Highly automated routines incl. calibrations and workflows

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Learn more at: arralyze.com/cellshepherd

Real-Time Monitoring

Automated imaging of cells in a fully controlled environment.

Targeted Isolation

Extract content of wells like cells alive for downstream analysis.

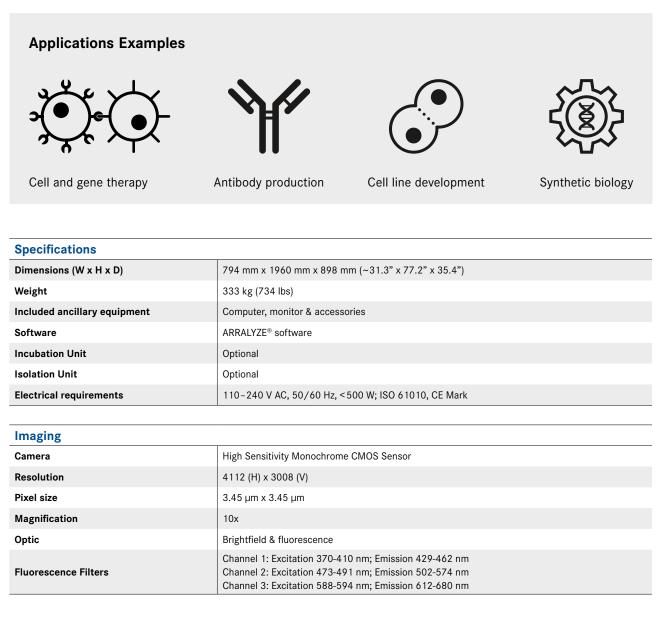


Unlock the Path for Discovery

Multifunctional Single Cell Platform

The ARRALYZE[®] CellShepherd is an all-in-one solution, seamlessly integrating dispensing, imaging, and isolation of single cells in a sterile and climate-controlled environment. Employing advanced microfluidics and intelligent imaging driven by AI, the platform empowers researchers to engage in cutting-edge scientific endeavors.

In synergy with the ARRALYZE[®] glass arrays, scientists can carry out thousands of experiments simultaneously at nanoliter scales, preserving reagents and minimizing waste. This method is specifically tailored to streamline experiments involving a limited number of cells derived from precious samples. The CellShepherd maintains, protects, and monitors individual cells of interest over the course of time to ensure experiment consistency and reproducibility.



Patents pending



ARRALYZE® is a brand of LPKF Group

Learn more at: arralyze.com/cellshepherd

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