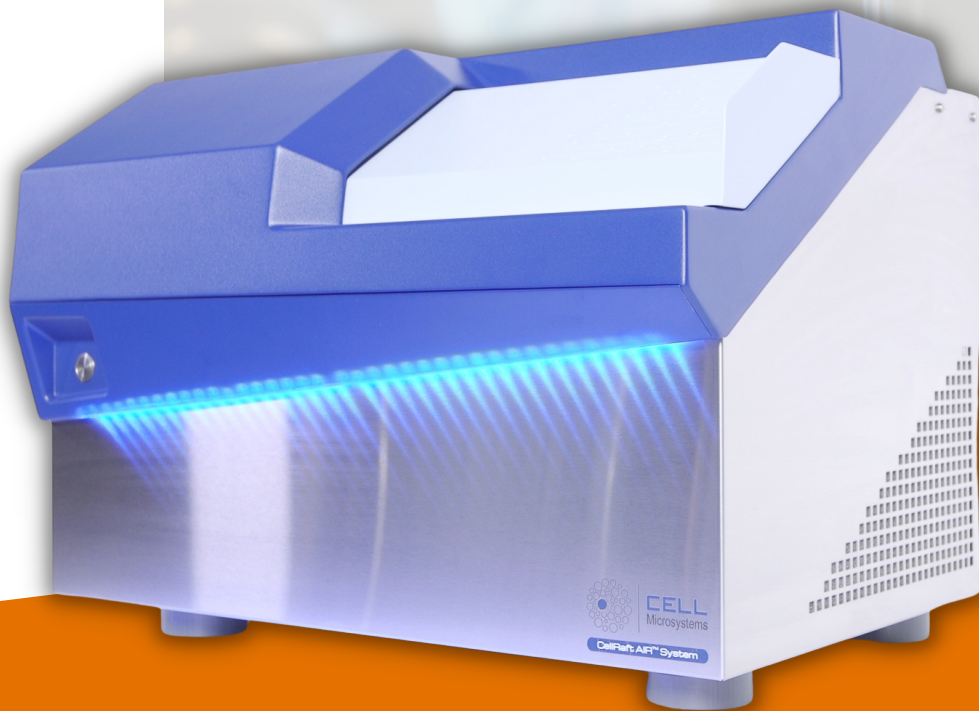


**CELL**  
Microsystems®

# CellRaft AIR® System

**LESS UPSTREAM EFFORT  
MORE DOWNSTREAM RESULTS**



**IMAGE • IDENTIFY • ISOLATE**

# CellRaft AIR<sup>®</sup> System

Expect  
more from  
your workflow



## MORE INSIGHTS

Seeing is believing. Detailed and clear imaging is required for cell identification and analysis. The AIR System's high-resolution imaging offers an effective 20x magnification\*.

*\*based on camera resolution*

## MORE RESULTS, LESS EFFORT

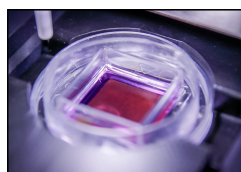
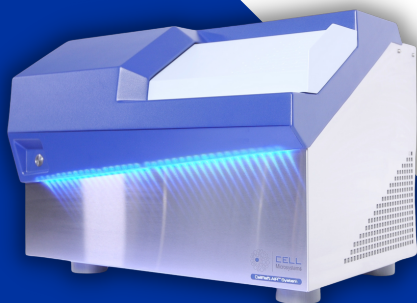
With rapid scan times, efficient isolation, and high cell viability, get from cell to clone faster. Savings transfer through the entire workflow.

## CELL-FRIENDLY WORKFLOWS

Discover cells or clonal colonies of interest while maintaining native phenotypes using the powerful combination of our CytoSort<sup>®</sup> Array and instrument. Image, identify, and isolate with ease.

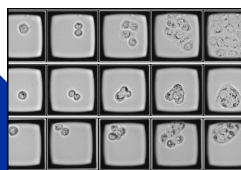
## One system, more downstream discovery

Providing less upstream effort with more downstream discovery by combining imaging, identification, and isolation on one instrument with no minimum sample size requirement.



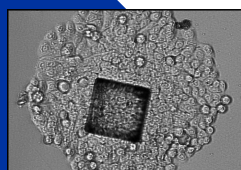
### IMAGE

Brightfield and fluorescence scanning provides detailed images of subcellular features in as little as six minutes.



### IDENTIFY

Find the highest quality cells in real-time, ensure clonality, and track and trace clonal colony growth over time.



### ISOLATE

Gently and automatically isolate a 96-well plate of viable cells and colonies with unperturbed phenotypes in less than 40 minutes.

# CellRaft AIR® System

## CAPABILITIES

### APPLICATIONS

Cell line development  
CRISPR gene editing  
Stem cell culture  
Organoid development  
Single-cell genomics

### ON-ARRAY ASSAYS

Cell-drug interactions  
Cell-cell interactions  
Co-culture  
Cell characterization

### CELL TYPES

Stem cells (including iPSCs)  
Animal or human cells  
Primary cells  
Immortalized cells  
Adherent cell  
Suspension cells

## FEATURES

- Bench-top instrument
- Attached computer
- On-instrument and off-instrument software included
- Optional stage top incubation system
- Start-up kits come with CytoSort Arrays and accessories

FOR MORE INFORMATION, VISIT  
[CELLMICROSYSTEMS.COM](http://CELLMICROSYSTEMS.COM)

## IMAGING

Fluorescence excitation-emission specifications

| Channel | Representative Dyes | Excitation | Emission   |
|---------|---------------------|------------|------------|
| Blue    | DAPI, Hoechst       | 379-401 nm | 412-453 nm |
| Green   | FITC, GFP           | 461-489 nm | 498-548 nm |
| Red     | mCherry, Texas Red  | 559-591 nm | 603-805 nm |

## SPECIFICATIONS

|               |                                                                                                                                            |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Size          | 20" High, 20" Deep, 27" Wide                                                                                                               |
| Weight        | 125 lbs                                                                                                                                    |
| Camera        | 2752 x 2192 resolution (6MP)<br>4.54 x 4.54 µm pixels<br>8-bit depth                                                                       |
| Magnification | 1.2 x 1.4 mm field of view<br>0.57 µm/pixel*<br><small>*ON PAR WITH 20X MAGNIFICATION USING A TYPICAL SCIENTIFIC MICROSCOPY CAMERA</small> |
| Power         | 125/250 VAC, 10A, 60/50 Hz                                                                                                                 |
| Data Storage  | 0.25 TB on computer, 0.5 TB external USB drive<br>network capable (ethernet, wi-fi)                                                        |
| Certification | ISO 61010, FCC emissions, CE Mark                                                                                                          |

## CYTOSORT ARRAYS

CytoSort Array Single Reservoir  
CytoSort Array Quad Reservoir  
CytoSort Array HexaQuad Reservoir  
3D CytoSort Array

## SOFTWARE MADE FOR YOUR WORKFLOWS

The CellRaft AIR System Software is powerful and intuitive.  
The user can:

- automatically image the entire array in as little as six minutes
- explore acquired images to track changes in target cells over time
- create a gating strategy for cell selection
- map CellRaft collection plate(s) for downstream analysis
- initiate hands-free isolation with the push of a button
- extend discovery in Cytometric Mode and Organoid Mode

Demo our software at [cellmicrosystems.com](http://cellmicrosystems.com).



**CELL**  
Microsystems®

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