



# Aura CL

HIGH-THROUGHPUT, LOW VOLUME  
CELL, VIRAL CAPSID, AND PROTEIN  
AGGREGATE QUANTITATION

Cell Aggregate ID  
Protein Aggregate ID  
Fluidics-Free  
96-Well Format

## About Aura CL

Aura CL™ is the first system designed to detect, count, and characterize cellular aggregates and subvisible particles for product quality measurements in cell therapy applications. It also makes it super simple for you to specifically ID cell from non-cell aggregates right out of the box, without having to spend hours sorting through images or needing complex machine learning libraries.

The Aura CL combines Backgrounded Membrane Imaging (BMI) with two channels of Fluorescence Membrane Microscopy (FMM) to give you aggregate data without any clogging concerns or the need to clean between measurements. Get count, size, and morphological information using BMI with full-well imaging and 100% sampling efficiency or differentiate between cellular, protein, or extrinsic aggregates using FMM to quickly know what's in your sample. FMM can also be used for cell viability and cell type differentiation assays to further understand your cell therapy product.

## Product Specifications

<b>Technology</b>	Backgrounded Membrane Imaging (BMI) and Fluorescence Membrane Microscopy (FMM)
<b>Imaging area</b>	24.6 mm <sup>2</sup>
<b>Optics</b>	4x and 10 objectives
<b>Sampling efficiency</b>	100% (4x objective)
<b>Brightfield illumination (BF)</b>	LED 455 nm
<b>Side scatter illumination (SIMI)</b>	LED 465 nm
<b>Fluorescence illumination (FL)</b>	LED
<b>FL Channel 1</b>	Ex: 440 nm    Em: 500 nm
<b>FL Channel 2</b>	Ex: 376 nm    Em: 440 nm
<b>Minimum sample volume</b>	5 µL (assay dependent)
<b>Resolution</b>	1.0 pixel/µm
<b>Detectable size range (min)</b>	>1 µm (ECD)
<b>Detectable size range (max)</b>	<5 mm (ECD)
<b>Brightfield read time (BMI)</b>	1 minute/sample
<b>Fluorescence read time (FMM)</b>	30 seconds/sample
<b>Sample format</b>	96-well filter membrane
<b>Membrane type 1 (Brightfield)</b>	White – Polycarbonate 0.4 µm or 0.8 µm pores
<b>Membrane type 2 (Fluorescence)</b>	Black – Polycarbonate 0.4 µm pores
<b>Software</b>	Particle VUE 4.x all-in-one software suite (image capture and analysis)
<b>Robotic compatibility</b>	Yes
<b>Operating system</b>	Windows 10
<b>Power</b>	Universal input (90 – 265 Vac)
<b>Instrument dimensions</b>	13.5 in x 18 in x 13 in
<b>Instrument weight</b>	57 lbs