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Unlock cellular secrets like never before: spectral flow and single-cell imaging in one cytometer

Imagine if you could analyze cells with spectral flow cytometry and access single-cell images all at once. No need for separate experiments. No need for additional instrumentation. And no need for complicated software and workflows. This possibility will soon become a reality with the new BD FACSDiscover™ A8 Cell Analyzer.

What are the advantages of using one instrument that combines spectral flow cytometry and real-time imaging? This instrument will enable high-parameter experiments and eliminate the need to run separate experiments, saving you time and resources. You could further reduce variability by confirming the cells you're analyzing are the same cells you're viewing through live visualization. You may even discover new insights that were previously undetectable.

We've integrated and enhanced our existing technology to bring the best of spectral flow cytometry and imaging together in one instrument. Here's how it works:

- **BD SpectralFX™ Technology** enables high-parameter spectral workflows that expand panel size and increase flexibility with 78 fluorescent detectors across five lasers. By capturing the emission spectrum of each fluorophore, this technique allows you to resolve highly similar fluorochromes and include over 40 colors in your panel.
- **BD CellView™ Image Technology** adds a whole new capability to complement spectral flow analysis. Our optical multiplexing approach images cells without a camera. Instead, it uses the electrical and optical components used in flow cytometers, enabling imaging of cells at faster rates so that imaging data can be quantified in real-time.

Adding single-cell imaging to a flow cytometry workflow helps address questions that couldn't be previously answered by flow cytometry including spatial and physical characteristics of cells such as morphology and protein localization.

We created the BD FACSDiscover™ A8 Cell Analyzer with the following features in mind:

- **Spectral Performance:** The BD FACSDiscover™ A8 Cell Analyzer combines full-spectrum optics, next generation QC and system-aware spectral unmixing to give flow cytometry even more experimental power.
- **Dual Mode:** We realize that you might not need to image cells during spectral flow for every single experiment. The BD FACSDiscover™ A8 Cell Analyzer can run in an imaging mode and a standard mode without imaging. Standard mode enables analysis of 35,000 events/sec.
- **Integrated Autoloader:** The BD FACSDiscover™ A8 Cell Analyzer includes a fully integrated auto-sample loader with sample mixing and temperature control. As more and more plate-based automated workflows become mainstream, we've adapted our instrumentation to meet current and future needs.
- **Simplified Workflow:** We've eliminated the steep learning curve when using new software for the first time. The simplified workflow reduces set up complexity to help you get your analysis up and running quickly.
- **Easy Panel Transfer:** The BD FACSDiscover™ A8 Cell Analyzer is a matched pair with the [BD FACSDiscover™ S8 Cell Sorter](#) enabling easy panel transfer if you anticipate the need for image-based sorting after analysis.

We're excited to take the science of flow cytometry to the next level. The seamless integration of high dimensional flow cytometry with real-time imaging is the breakthrough that you need for your next discovery.

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BD flow cytometers are Class 1 Laser Products.
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