

Welcome to the Age of Multiplexed Diagnostic Testing

- Read out multiplexed assays in your preferred format: at the bottom of 96-well plates, strip arrays, or slides.
- Perform quick and effortless data analysis: read-out time for a 96-well plate is just over 2 minutes, including set-up, reading and data analysis/acquisition.
- Forget about the manual: the on-board computer with the intuitive touch-screen GUI will guide you through the process.
- Automate: CLAIR fits seamlessly with standard pipettors, plate washers, spotter, and other liquid handling instrumentation. CLAIR is designed to use the SBS microplate format.
- Save time: read dozens, even hundreds of data-points per well instead of just one.
- Get great results: flexibility and ease-of-use don't come at the price of performance; CLAIR will give you comparable sensitivity as standard microarray scanners.
- Save money: our goal is to make assay read-out fast, easy and affordable. We have priced CLAIR so you can afford one on your bench.

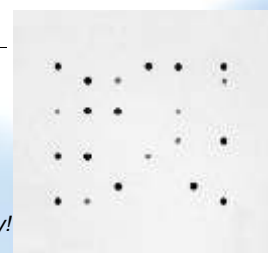


CLAIR Colorimetric Array Imaging Reader

CLAIR, Sensovation's Colorimetric Array Imaging Reader is a plate reader designed for multiformat multiplexing, specifically in 96-well microplates. It captures images of microarrays at the bottom of each well using a high sensitivity CCD camera.

CLAIR provides fully automated analysis of microarrays in microplates, microplate strips and slides. High resolution digital imaging of microarrays allows for high performance data acquisition. The stand-alone instrument with touchscreen display includes easy-to-use instrument control and image acquisition software including spot evaluation algorithms.

*This is not a 96-well plate!
This is the bottom of one well of a 96-well
plate with a 10 X 12 spot pattern.
After subtracting standards and the controls
necessary for alignment you obtain over
11,000 data points in one 96-well plate!
Not enough? More is possible!
Too much? Less is easy!*



Diagnostics at Their Best - Multiplexing ELISAs

More data is better - this is often true but it is especially so when it comes to diagnosing patients with multifactorial / autoimmune or infectious diseases. The best way of obtaining more data faster is by multiplexing.

It is a simple equation:

More assays per well = more data per well = less sample = less time = less cost

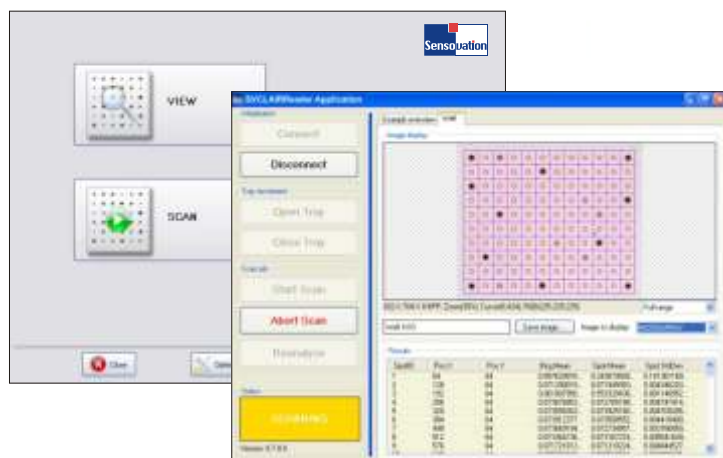
Choose the CLAIR read-out platform if you want to:

- Analyze a patient sample containing multiple autoantibodies directed to various distinct components of the same macromolecular complex.
- Understand the interaction of multiple autoantibodies.
- Detect various microbial antigens in human serum.
- Analyze different types of molecules, no need to switch platforms CLAIR can handle it all.



Why Multiplex?

- Saves cost in terms of reagents, lab consumables, and - especially - labor.
- Allows for the acquisition of an extensive amount of Information from a small patient specimen.
- Provides the ability to test simultaneously for such diverse analytes as nucleic acids, antigens, antibodies, and drugs.
- Ensures the accuracy of test results through the inclusion of internal quality controls.
- Increases sample throughput.
- Enables the identification of patterns of analyte concentrations.



CLAIR's integrated Instrument control- and image acquisition software is designed with routine operation in mind. The software allows quick implementation of array definitions, and easy routine analysis in a semi-automated way. The software is optimized for the integrated touchscreen the array-measurement and -analysis is simple and right at your fingertips.

Each microarray in each well is analyzed directly during data acquisition. The intensity of each spot as well as the background intensity is calculated.

CLAIR Technical Data:

| | |
|-----------------------------|---|
| Size of Microarray in Well: | up to 5 mm diameter |
| Microarray Spot Size: | 20µm - 500µm |
| Pixel Resolution: | fine (5.1 µm/Pixel), medium (10 µm/Pixel), coarse (15 µm/Pixel) |
| Camera Pixel Resolution: | 3.8 Mpixel |
| Image Formats: | BMP, TIF |
| Digital Resolution: | 12 Bit, 8 Bit |
| Time to read 96 wells: | 2.5 min |
| Wavelength range: | 350 nm - 1100 nm |
| Dimensions (cm): | L: 43 W: 34 H:19 |

Use of CLAIR with the Silverquant precipitation method requires a license from Eppendorf AG. Alternatively you can purchase CLAIR and reagents from providers owning such a license.

Why Multiplex with CLAIR?

- CLAIR is equally suited for DNA arrays and protein arrays. With special importance for reversed phase microarrays.
- Ideal for routine applications in diagnostics and biotechnology.
- Planar multiplexing avoids unwelcome interaction between different antigens as possible in solution-based formats/assays.
- Amplification of the signal through an enzymatic reaction makes colorimetric detection sensitive and the labeling choice for many ELISA assays.
- Multiplexed colorimetric microspot assays have been shown to be even more sensitive than standard colorimetric assays.
- As a CCD-camera system CLAIR is fast, sensitive and affordable.
- Although designed for measuring microarrays in 96-well plates, CLAIR is a true multiformat reader measuring slides, biochips or any other sample holders within the dimension of a 96-well plate.

Partnering Opportunities

At Sensovation our specialty is developing and building optical detection instrumentation and associated software. We do these things well, that major diagnostic companies have awarded us with "A+ quality supplier status" for more than 5 years in a row. We are used to collaborating with diagnostic companies!

Surface chemistry, spotting, assay development, discovery these parts of the value chain we leave to companies with deep expertise in these fields. And we want to work with these companies! Together we can offer a complete system, consisting of consumables, biological assays, readers and software, and shift the paradigm from yesterday's slow one assay/parameter at a time approach to the tomorrow's fast and efficient multiplexing.

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