DeNOVO

Bringing Liquid Biopsies to Clinical Practice

bioview ingenuity

The future is here.

The DENOVO is an automated cell scanning system for detection, capture and characterization of Circulating Tumor Cells (CTCs) from peripheral blood.

The DENOVO utilizes the proven capabilities of BioView's portfolio of automated cell imaging and analysis platforms, which have been in use by top tier centers worldwide for clinical and research applications.

An all-in-one scanner, designed to bring Liquid Biopsy to the clinical routine by introducing high level of automation, standardization and sensitivity, which is easy to operate and integrate with any circulating tumor cells assay.

Fully equipped with state-of-the-art hardware components and multimodality field-proven automated imaging and AI deep learning analysis algorithms, the DENOVO automates the detection and characterization of CTCs regardless of the enrichment method and biomarker used.

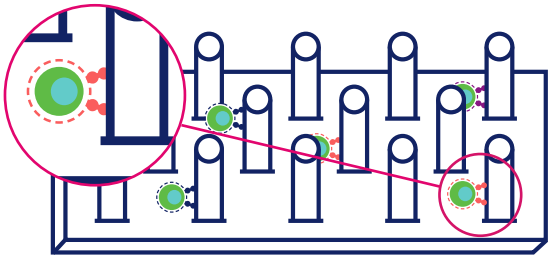
BioView has developed the DENOVO to be a unique standalone platform, expressly built to provide all the essential functions needed in turning manual CTC detection and analysis into an automated, high throughput – high capacity process, thus advancing Liquid Biopsy into the clinical routine.

DeNOVO Features:

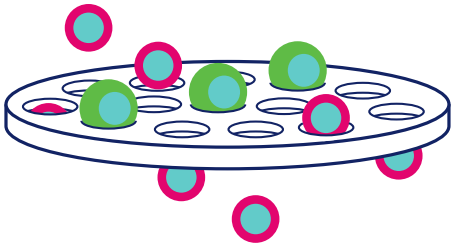
1. Flexible

Designed to support automated imaging and analysis of various CTC enrichment techniques, independent of device geometric pattern and 3D structure.

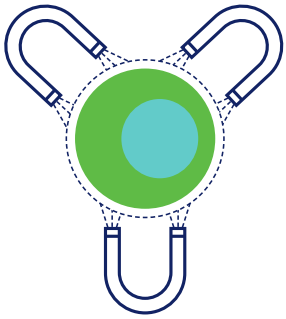
Antibody immobilization



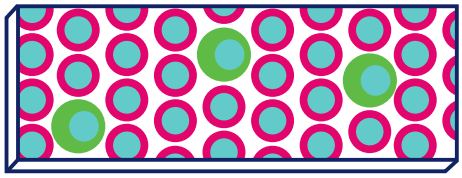
Size filtration



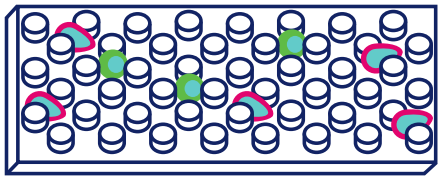
Magnetic separation



No enrichment

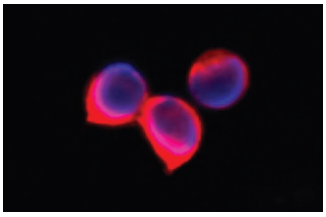
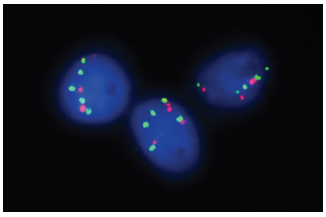
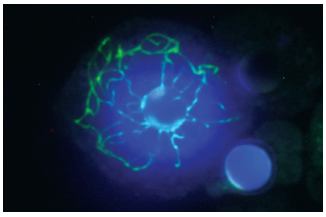


Microfluidic chip



2. Preparation Independent

Supports any combination of fluorescent markers, antibodies / RNA / DNA.

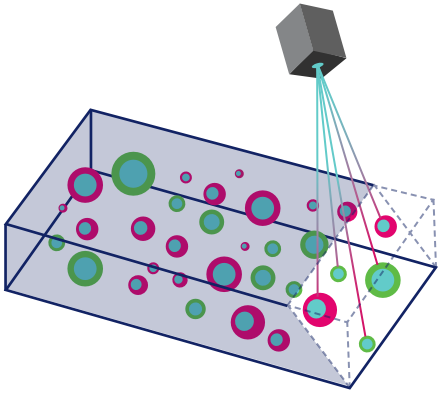




3. Simple to Use

Integrated touch screen, load and launch single click operation.

4. High Throughput

Combination of best of class optics and unique imaging algorithms specifically tailored to facilitate rapid 3D capture, detection and analysis of fluorescent labeled cells within the sample.

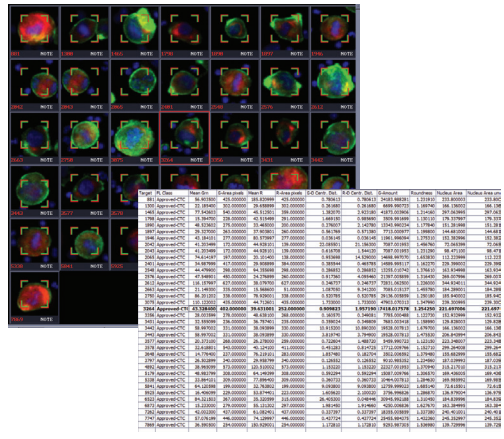


5. Capacity

Load up to 40 samples for unattended scan batch. Integrated barcode reader identifies sample ID and markers hybridized with each sample.

6. AI Deep Learning Algorithmic Tools

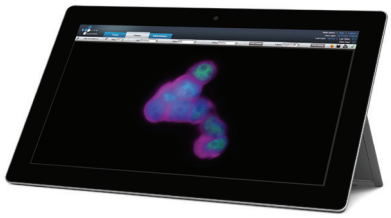
Advanced assay specific AI algorithms are combined with, Biometric - cellular and signal attributes such as area, roundness, elongation, intensity and others, are automatically applied during scan and presented to operator per captured cell.

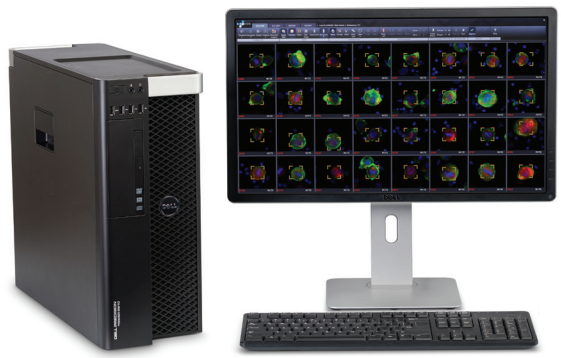


Biometric data is combined to form assay specific CTC gating criteria as well as assist in assay development. Data can be seamlessly exported to Excel spread sheet.

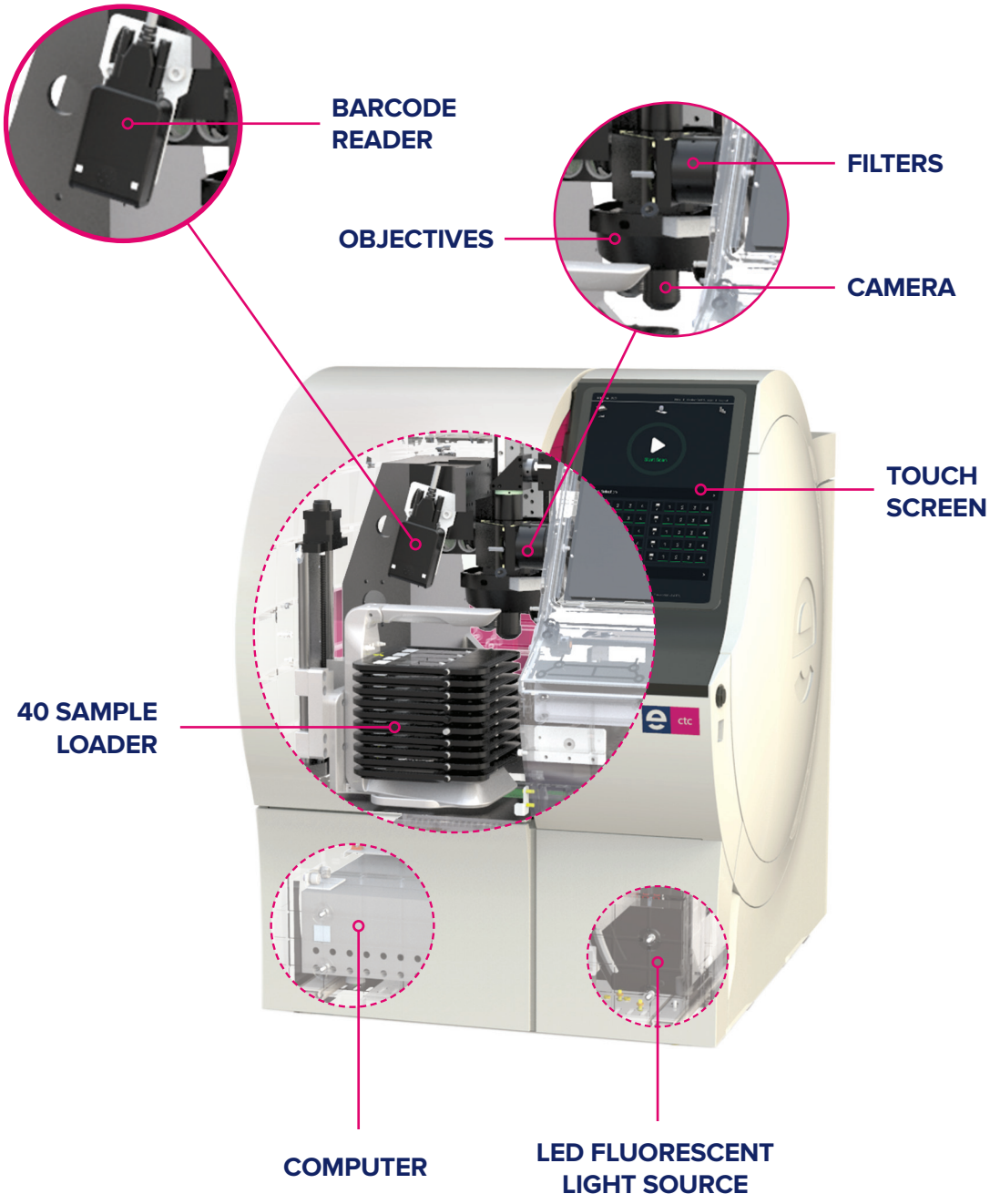
7. Offline Review and Analysis

Scan results can be reviewed and reported via BioView's family of Solo satellite workstations locally or from any location across the globe via internet access using BioView's SoloWeb Web Based Review, Analysis and Reporting Software.





System Overview



About us

BioView develops, manufactures and supplies cell imaging equipment and software to commercial laboratories, medical institutions and universities.

The Company's mission is to become the leader in the laboratory equipment market for cancer screening and monitoring by automating microscopy testing, increasing laboratory productivity, reducing the rate of false-positive results, and enabling physicians and researchers to make more accurate and earlier patient assessments.

BioView Ltd. is a publicly traded company on the Tel-Aviv Stock Exchange.

Service, Support & Training

BioView is committed to ensure its customers receive the full value from our system solutions.

Our customer support team consists of highly trained engineers, biologists, software specialists and technicians dedicated to providing timely support around the clock. Our customer trainers will ensure that your staff will achieve the best results in a short time period.

For additional information on BioView products and service programs, contact your local BioView representative.

In the USA, The Duet™ system is intended for in-vitro diagnostic use as an aid to the pathologist in the analysis of Hematopoietic, Amnio, UroVysion, ALK and HER2/neu FISH.

In the EU and Canada, The Duet™ system is intended for in-vitro diagnostic use as an aiding tool to the pathologist in the detection, classification, and counting of cells of interest based on color, intensity, size, pattern, and shape. It is the end user's responsibility to validate the use of the Duet system in combination with commercial reagents and materials for a specific clinical application. The Duet system is for professional use only.

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