BioView

Automated Imaging
and Analysis Systems

bioview
Viewing
a Better Future
for You

BioView

BioView's automated imaging and analysis platforms are designed to seamlessly ease the analysis, reporting processes and to reduce turn-around time for labor intensive tests performed by cytogenetic, pathology and cytology laboratories.

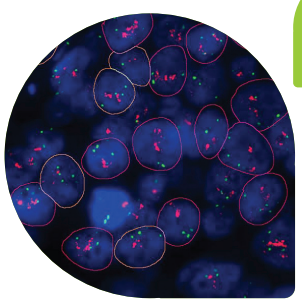
BioView's wide portfolio of automated platforms ensures proper fit for laboratory needs, by providing solutions for various sample volumes and automation level requirements, including manual, semi-automated and fully unattended scanning solutions.

BioView's commitment to continuously meet market trends for new emerging tests, implementing state of the art imaging and optical solutions, and simultaneously maintaining optimal workflow , reinforces its position as the industry market leader.

Versatility

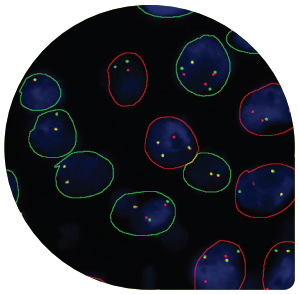
BioView's platforms offer both FDA-cleared and Research Use imaging and analysis solutions for cytogenetic, oncology and pathology laboratories. Systems are tailored to meet present customer needs, with optional expansion of applications as well as hardware modules at a later time as the laboratory increases its workloads and tests menus.

FDA Cleared Application



Breast tissue hybridized with PathVysion™ FISH probe (Abbott Molecular Inc.)

FDA Cleared Application



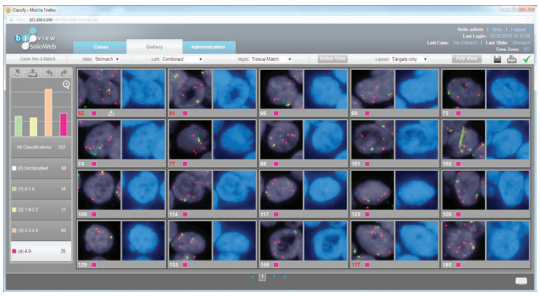
Lung tissue hybridized with ALK break-apart FISH probe (Abbott Molecular Inc.)

Tissue

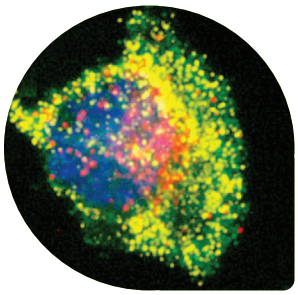
Rapid scan and analysis of tissue sections hybridized with FISH probes as well as matching between parallel tissue sections for targeted analysis.

- Breast
- Lung
- Prostate
- Brain
- Esophagus
- Stomach
- Cervical
- Skin
- TMA
- Digital Pathology

Pathologist selection of region of interest for FISH Analysis performed using BioView's Soloweb application



Web review and analysis of hybridized tissue section

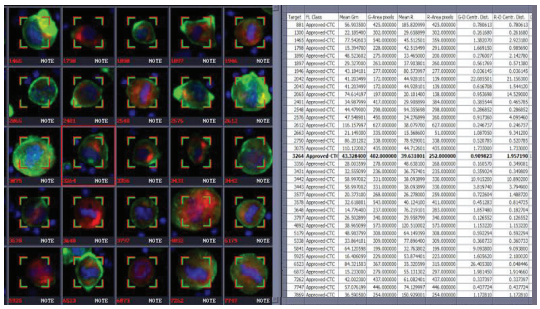


mRNA FISH automatic capture and analysis

Rare Cell detection

Rapid detection, enumeration and characterization of rare cells from peripheral blood sample

- Circulating Tumor cells
- Fetal cells



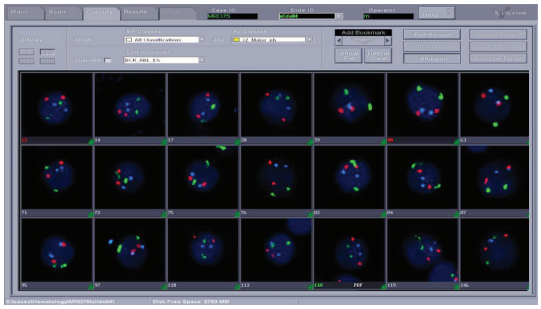
Circulating tumor cells automatically detected and characterized

FDA Cleared Application

Hematology

Rapid scan and analysis of bone-marrow, blood and lymph section hybridized with any FISH probe

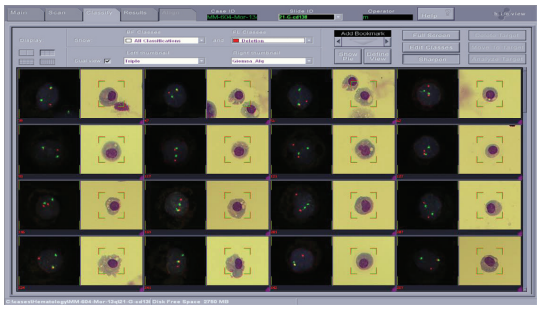
- Bone marrow
- Blood
- Lymph sections



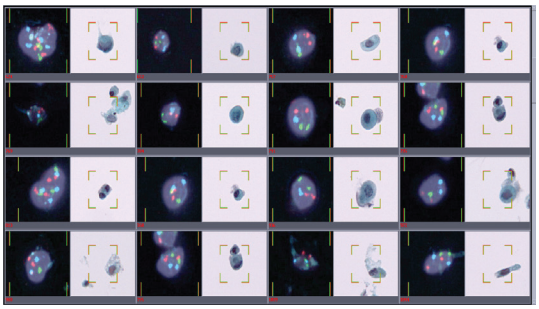
Blood sample hybridized with FISH probes

Target - FISH

- Analysis of multiple markers on the same cell: morphology / FISH , IHC / FISH, IFL / FISH
- Genetic abnormality of a pre-selected subset of target cells
- Increase sensitivity and specificity of results
- Applications in Hematology, Bladder Cancer, Lung Cancer, Tissue sections



Target-FISH of Plasma Cells in Multiple Myeloma



Target-FISH on recurring bladder cancer patient

Image Quality

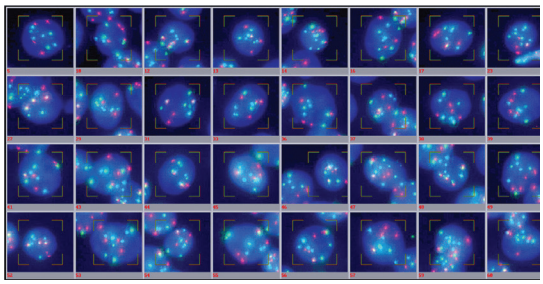
BioView's high quality imaging and optical components, including high resolution oil immersion objectives, fluorescent and Bright-Field light sources as well as advanced high resolution digital cameras, ensure superior imaging quality, reliability and accuracy of results.

FDA Cleared Application

Cytology

Rapid scan and analysis of cells from cytological samples hybridized with any FISH probe

- Bladder FISH
- Cervical FISH



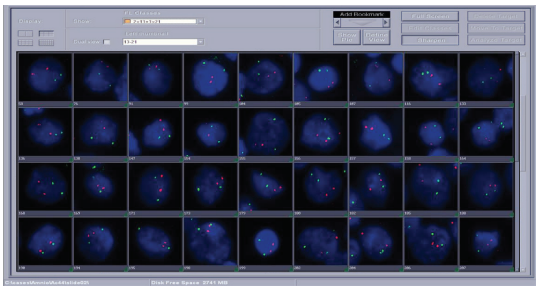
Urine sample hybridized with UroVysion™ FISH probe (Abbott Molecular Inc.)

FDA Cleared Application

Prenatal

Rapid scan and analysis of amniotic cells hybridized with X,Y,18, 13, 21 FISH probes

- Amniotic cells
- Sperm

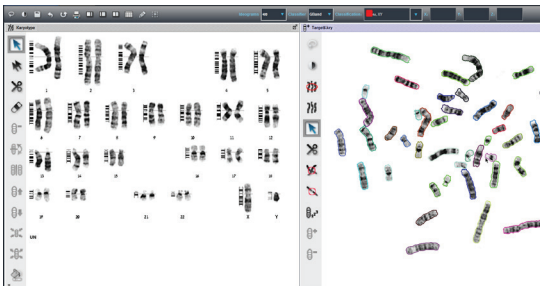


Amniotic cells hybirized with AneuVysion™ FISH probe (Abbott Molecular Inc.)

Cytogenetics

- Fluorescent Metaphases detection and imaging
- Karyotyping

Fluorescent metaphases hybridized with DiGeorge probe



G-Band Stained metaphase analyzed using BioView's Karyotyping application.

Productivity

BioView scanning system is intended for in-vitro diagnostics use as an aiding tool for the pathologist in the detection, classification and counting of cells of interest based on color, intensity, size, pattern and shape. BioView Hematology, Bladder, Breast, Lung, Karyotyping and Pre-Natal applications are for an aid in diagnosis. In the USA, Karyotyping application is for Research* Use Only. Not for Use in Diagnostic Procedure..

Accord

Accord - Plus

Allegro - Plus

Encore

Duet-3

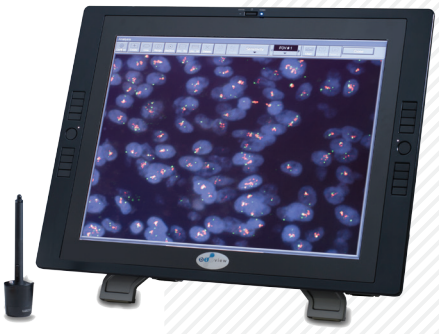
Satellite Workstations

BioView's renowned family of Solo™ satellite workstations specifically designed for streamlined, easy to use, on screen, remote review, analysis and reporting.

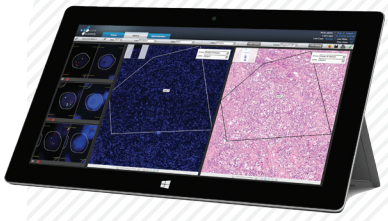
The Solo product family includes the Solo offline workstations; Solo software package for installation on standard personal computers; Solo-Touch workstations, optimized for work with personal touch screen monitors, and the SoloWeb, remote web based, cloud, review and analysis solution, allowing increased efficiency while introducing mobility and support of flexible workflow and analysis schemes.

Solo workstation

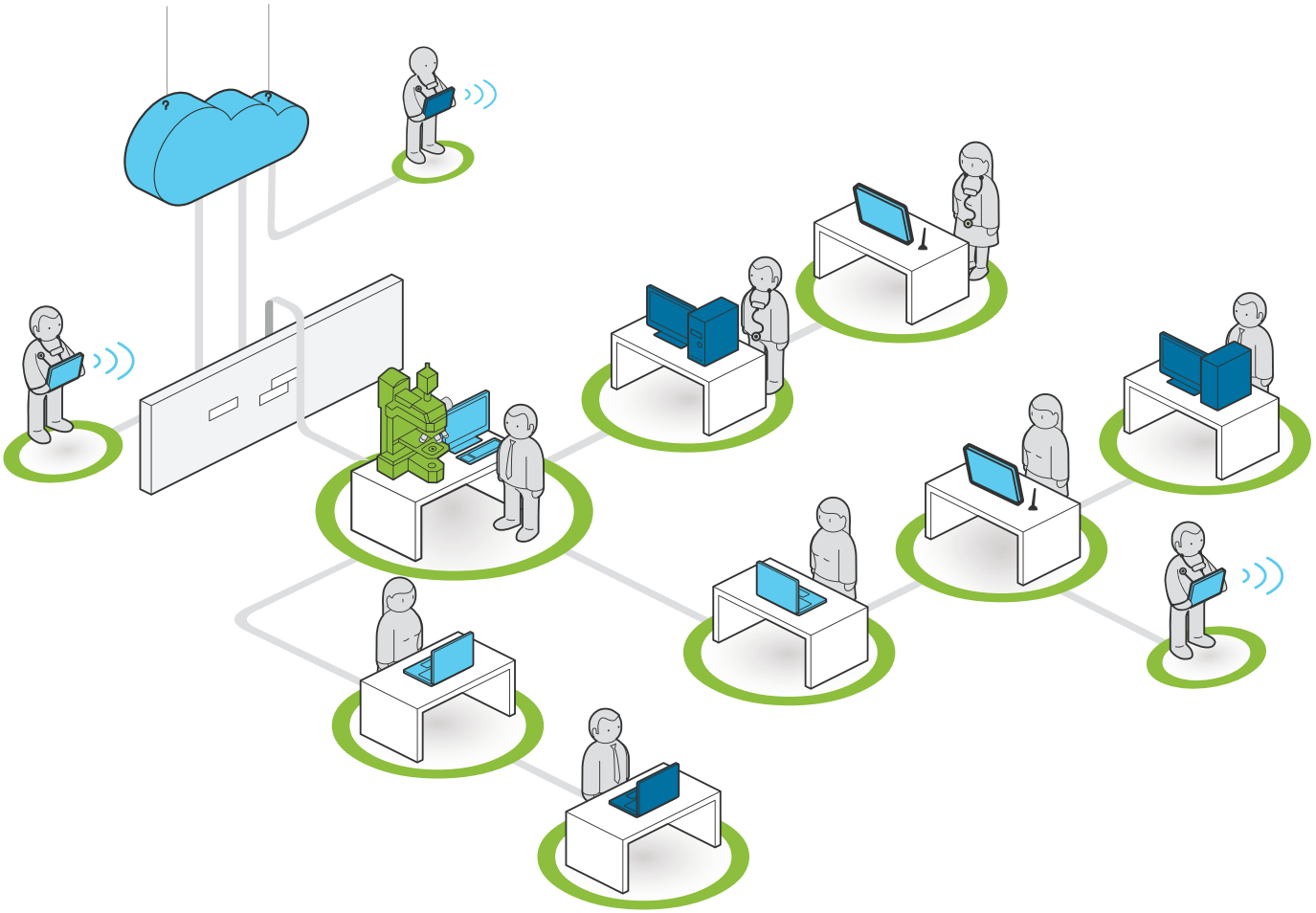
Solo-Touch



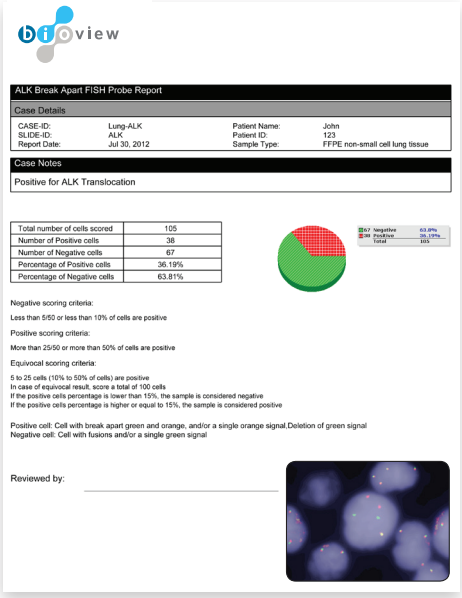
SoloWeb



The Solo family of products addresses laboratory need for both in-house and remote review and analysis capabilities for TC/PC.



BioView's automated systems can be seamlessly integrated with existing LIS systems as well as generate customized reports in PDF, HTML, XML and CSV formats with electronic signature support.



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ALK Break Apart FISH Probe Report

Case Details

CASE-ID:	Lung-ALK	Patient Name:	John
SLIDE-ID:	ALK	Patient ID:	123
Report Date:	Jul 30, 2012	Sample Type:	FFPE non-small cell lung tissue

Case Notes

Positive for ALK Translocation

Total number of cells scored	105
Number of Positive cells	38
Number of Negative cells	67
Percentage of Positive cells	36.19%
Percentage of Negative cells	63.81%

Negative scoring criteria:

Less than 5/50 or less than 10% of cells are positive

Positive scoring criteria:

More than 25/50 or more than 50% of cells are positive

Equivocal scoring criteria:

5 to 25 cells (10% to 50% of cells) are positive
In case of equivocal result, score a total of 100 cells
If the positive cells percentage is lower than 15%, the sample is considered negative
If the positive cells percentage is higher or equal to 15%, the sample is considered positive

Positive cell: Cell with break apart green and orange, and/or a single orange signal.Deletion of green signal
Negative cell: Cell with fusions and/or a single green signal

Reviewed by:

Automated Imaging and Analysis Systems Configurations

Your local representative will be happy to assist you to choose the station for your requirements.

	Encore	Duet-3	Allegro-Plus	Accord-Plus	Accord	Solo Review Workstation
Fully unattended scanning	+				Semi-automated	N.A.
Fluorescent microscope and fillers	+					
Oil immersion objectives for automated fluorescent scanning	+	+	+	+	+	
Slide load capacity of motorized stage	Up to 100 / 200	Up to 50	Up to 8	Single	Single	
Integrated automated 2D barcode reader	+	+	N.A.	N.A.	N.A.	
Integrated automated oil dispenser	Optional	Optional	Optional	-	-	
Fluorescent light source	Metal-Halide/Mercury					
Bright Field light Source	Optional					
Digital camera	2448x2048 Monochrome or Color					
UPS	+					
Monitor	23 " LCD or 22" Touch screen LCD					
SoloWeb compatibility	+					
Supported applications	FISH * Target-FISH * Parallel tissue matching * Digital pathology * TMA		Karyotyping * FL Metaphase detection and capture * Rare cells detection * Circulating tumor cells detection and characterization mRNA imaging and analysis			

*Not available on Accord system configuration.

BioView Hematology, Bladder (UroVysion™), Breast (PathVysion™), Lung (ALK Abbott Molecular Inc.), Karyotyping and Pre-Natal applications are for an aid in diagnosis.

In the USA, Karyotyping application is for Research Use Only. Not for Use in Diagnostic Procedure

All other applications are for Research Use Only. Not for Use in Diagnostic Procedure.

System Overview

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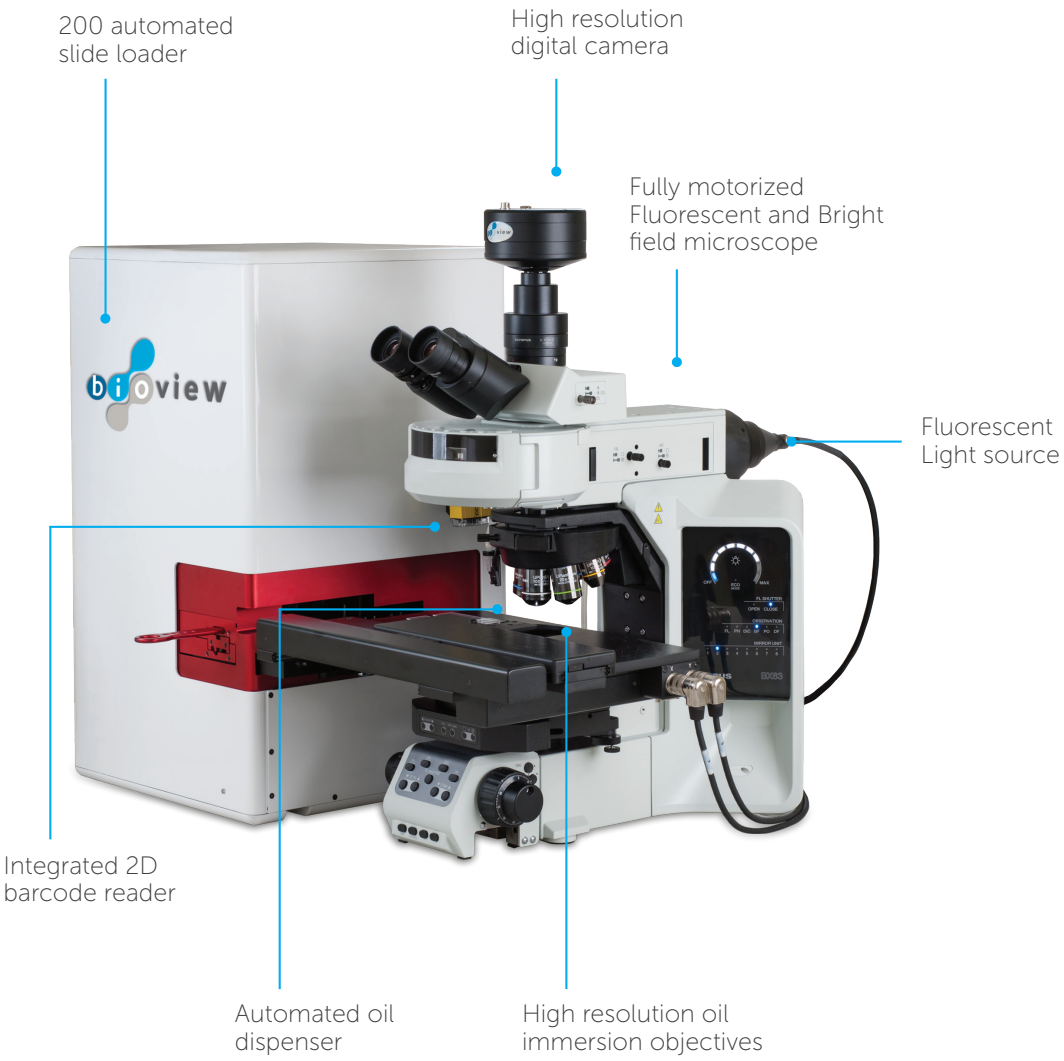

* A research application is not intended for in vitro diagnostic or clinical use, but is intended solely for use in the research setting, e.g university or pharmaceutical development. These applications are described as Research Applications for Research Use Only.

BioView - The Company

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

BioView is committed to ensure that our customers get the maximum 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.

www.bioview.co.il

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