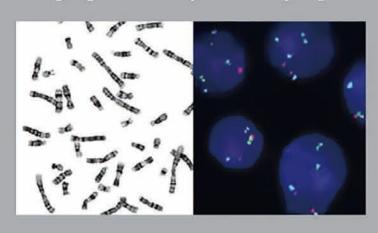
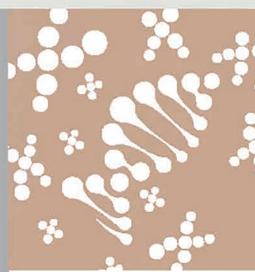


CytoPower

Imaging and Analysis for Cytogenetic Samples





POWERED BY GENASIS



A Complete Cytogenetics Workflow

Digitize slides, analyze chromosomes and score probes all-in-one

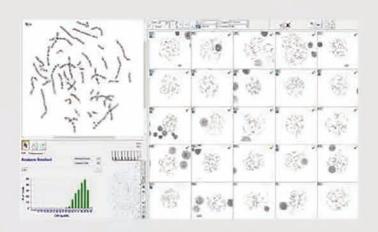
Welcome to your comprehensive Cytogenetics testing solution:



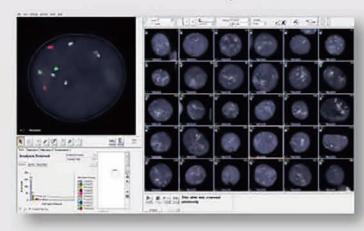


Digitize your slides for onscreen analysis and case management. Capture both metaphase and interphase cells for analysis



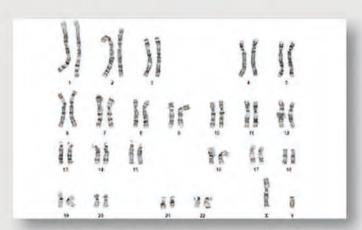


All in one platform to analyze chromosomes and classify cells



Scan >>> Analyze >>> Review >>> Report >>> Complete!

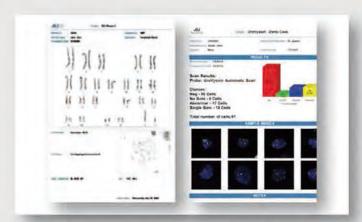




Click of a button karyotype and realtime statistical results on signals



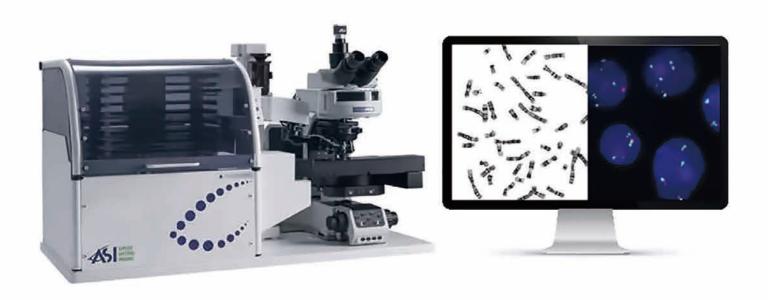
Report



Submit comprehensive case details

Cutting edge scanning, imaging and analysis instrumentation for karyotyping and FISH

All in one system



"CytoPower doubled our lab productivity in bone marrow karyotyping and tripled our productivity in blood sample karyotyping."

Nettie Rietema, University Medical Center Groningen, NL

Benefits to your lab:

- Higher diagnostic confidence with more cell analysis
- Automatic metaphase and interphase finder for better results
- Validated analysis tools for standardization across users
- Data management for performance metrics
- And so much more

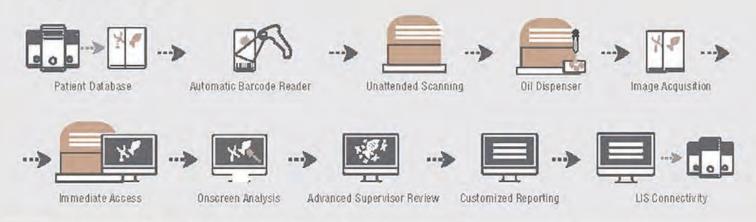
Digital Karyotyping & FISH Analysis

Manual and Automated Scanning

An all-in-one imaging & analysis solution for digital karyotyping and FISH diagnostics.

Automated workflows, powerful algorithms and feature-rich software provide optimized lab productivity and greater confidence in patient assessment for cytogenetic labs.

Fully Automated



Cytogenetic Clinical Applications to visualize, assess and identify:

- Chromosomal Abnormalities
- Structural and Numerical Changes
- Prenatal Amniotic Fluid
- Postnatal Blood
- ✓ Bone Marrow Cancer Genetics
- And much more...

Hematology Fish Flow:



Digital Chromosome Analysis You Can Rely On

Efficiency, Precision, Versatility

State of the Art Image Quality Start & Walkaway Scanning

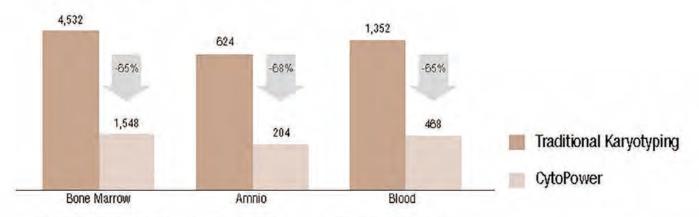


High resolution SMP camera sensor combined with a high quality 100x immersion oil objective

Broad Staining and Sample Menu G-Band Q-Band R-Band FISH Spectral R-Band Blood Bone Marrow Amniotic Fluid CVS

Increased Lab Productivity

66% Technologist Time Savings (Hours / Month)



Free technologist time to where their expertise is needed most

Comprehensive Working Platform



Feature Rich Review & Analysis



Count Accurate automatic chormosome counting



Analyze Fast and easy chromosome indexing and classification



Karvotype High accuracy of automated karyotyping, with auto ISCN, auto bands estimation and auto overlap score

Easy Separation and Boundary Editing

"Magic Tool" combining 12 operations in a simple mouse click



Overlap



Split







Advanced Onscreen Supervisor or Director Review

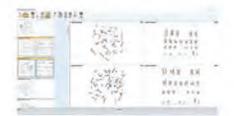
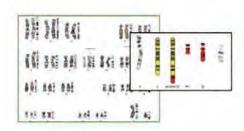


Image Gallery Display of all case metaphases and karyotypes



Chromosome Compare All captured cells and chromosomes side by side



Aberrant Ideogram Chromosomes, cells, ideograms and annotations in an image generator

^{*} FDA cleared for BandView, FISHView, SpotScan for CEP XY, UroVysion, ALK and HER2/neu FISH

Digital FISH Analysis

Accuracy, Consistency, Ease-of-Use

Image Quality Driven to the Max!



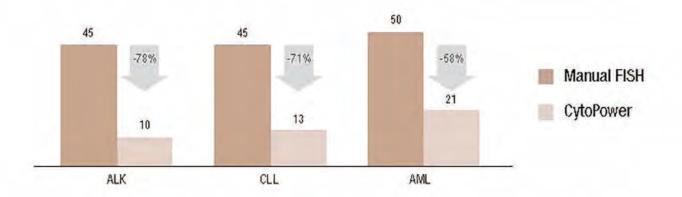
- Any Sample
- Any Probe

"Digital FISH analysis provides more efficient and accurate results and better patient care in comparison to traditional FISH methods."

Liew M, Rowe L, Clement PW, Miles RR, Salama ME., J Pathol Inform.

Workflow Efficiencies for Increasing Test Volumes

Over 55% Time Savings (Minutes / Case)



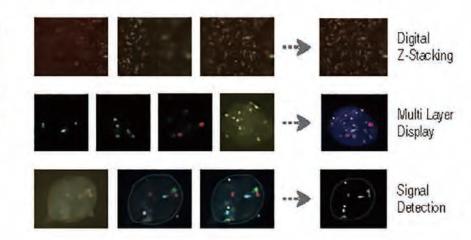
In-depth Cell Analysis

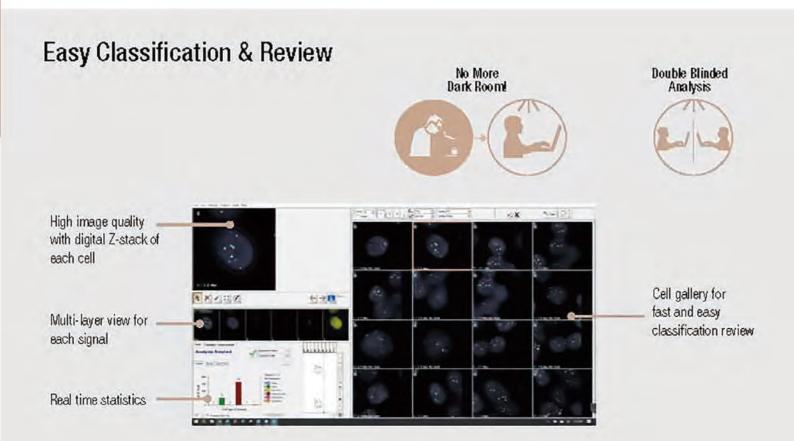


Increased Diagnostic Confidence



Accuracy
Automated cell/ signal detection and
classification for consistent reliable results

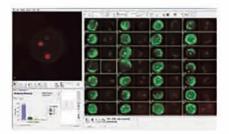




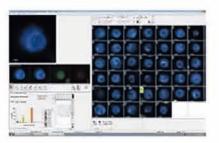
^{*} FDA cleared for BandView, FISHView, SpotScan for CEP XY, UroVysion, ALK and HER2/neu FISH

CytoPower for Research Applications

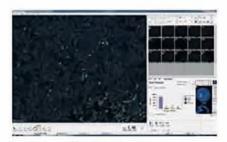
FISH Research



Circulating Tumor Cells



clgFISH



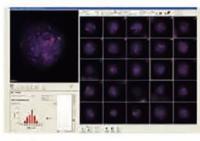
Immuno Fluorescence



Successive Staining

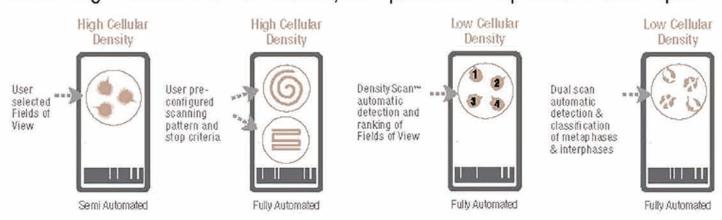


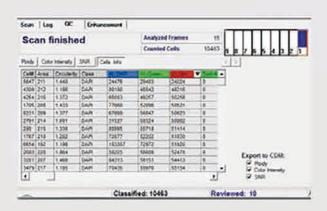
Sperm Cells



Telomeres

Scanning Protocols for All Probes, Samples and Preparation Techniques





Quality Control of Probe Assays

Cell phenotyping and signal classification Measurment and display of multiple cellular and signal properties

*HiSKY for Test Assurance

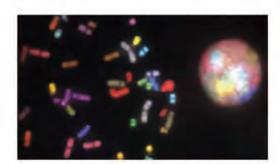
*HiSKY

Gold Standard Spectral Karyotyping

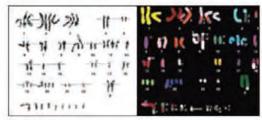
Multi-Color FISH Analysis for Result Verification

- ✓ Automatic identification of translocations and chromosomal origins
- Simultaneous detection of chromosomal aberrations in one hybridization
- ✓ Measurement of entire spectrum at each point





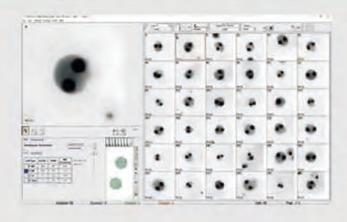




Brain Tumor

Ewing Sarcoma

*HISKY is an add on application for research purposes



MN Score

Micronuclei imaging, scoring and analysis for measurement of DNA damage, cytostasis and cytotoxicity

Data Management and Connectivity

Modern Paperless Workflow

Central Portal and Database Easily Integrates with Lab LIS



Efficient

Comprehensive

Eliminates human error

Case Data Management (CDM)

Work from Home!

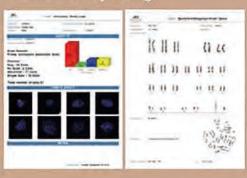
GenASIs AnyWhere[™] for Remote Access

Lab Connectivity Anytime, Anywhere

Review, analyze and sign off case information from any location via a secured network



Advanced Reporting



1D/2D Barcode Reader



LIS Connectivity

- ✓ Performance
- Security
- Data Integrity

HIPAA Compliant

Become a Data-Driven Lab with LabLife

Generate lab performance statistics LabLife™ for Lab Management



Benchmarks

Calculate performance benchmarks and track your KPIs. Meet certification and regulatory requirements



Optimization

Identify best practices to increase ROI per case and focus improvement efforts



Growth

Justify investment in additional capital equipment for the lab



Annual analysis and review

Compare performance year on year and make data driven decisions



NEW

Atlas provides the expert support you need to investigate, research, and confirm challenging abnormalities.

This new feature is located in BandView's toolbar for easy access during the analysis process.

http://atlasgeneticsoncology.org/

About Applied Spectral Imaging

Applied Spectral Imaging (ASI) is a global leader in biomedical imaging with a comprehensive product portfolio and a global distribution footprint.

Founded in 1993, ASI markets, services and supports its products in nearly 50 countries. With a wide FDA clearance portfolio, you can rest assured that ASI applications have been rigorously tested for compliance and clinical use.

The Company's technology, powered by GenASIs, enables pathology, cytogenetics and research laboratories to provide advanced diagnostics to patients through superior digital diagnostic tools. ASI has a wide portfolio of dedicated solutions for brightfield, fluorescence and spectral imaging and analysis, including HiPath Pro, PathFusion, HiBand, HiFISH, CytoPower and Rainbow.

The Company has offices in the US and Asia and a global network of distribution partners.

Global Presence

3,500

Systems installed worldwide

54

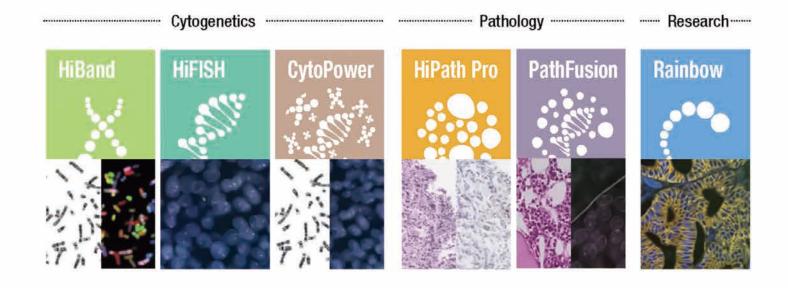
Countries through direct & indirect sales forces 63

Third party distribution partners



The Company's Product Portfolio

Exceptional Imaging & Analysis Solutions for Laboratories



Diverse platforms to accommodate all laboratory needs



System Specifications







- Land			9 Slide Motorized Stage OLYMPUS BX61 BF + FL OLYMPUS BX63 BF+ FL ZEISS Axiolmager Z2 BF+ FL		99 Slide Tray Loader OLYMPUS BX61 BF + FL OLYMPUS BX63 BF+ FL ZEISS Axiolmeger Z2 BF+ FL		HyperSpectral 1 Slide BF and FL upright microscopes
	Manual 1 Slide BF and FL upright microscopes						
Microscope Support							
Objectives	Olympus 10x/0.3NA 60x/1.25NA 100x/1.3NA	ZBSS 10x/0.3NA 63x/1.25NA 100x/1.3NA	Olympus 1.25x/0.04NA 4x/0.16NA 10x/0.3NA 40x/1.4NA 60x/1.25NA 100x/1.3NA	ZEISS 1.25x.0.03NA 5x.0.16NA 10x.0.3NA 40x/1.3NA 63x/1.25NA 100x/1.3NA	Olympus 1.25x/0.04NA 4x/0.16NA 10x/0.3NA 40x/1.4NA 60x/1.25NA 100x/1.3NA	ZEISS 1.25x/0.03NA 5x/0.16NA 10x/0.3NA 40x/1.3NA 63x/1.25NA 100x/1.3NA	10x/0.3 60x/1.42 or 63x/1.25 100x/1.3
Camera	5MP CMOS Monochrome		SMP CMOS Monochrome		5MP CMOS Monochrome		Spectral 1.3MP Wonochrome
Slide Capacity	1 slide (Manual or Notorized)		9 slides		99+ slides		1 slide (Manual or Motorized)
Barcode Reader	Handheld 10/20		Handheld 1D/2D		Integrated 1D/2D		Handheld 1D/2D
Automated Oil Dispenser	N/A		Optional		Integrated		N/A
Dimensions [WxDxH]	According to clients microscope		61cm×69cm×85cm (24"×27.2"×33.5")		100cm x 90cm x 90cm (39.4" x 35.5" x 35.5")		According to clients microscope
Weight	According to clients microscope		45 kg ⊗9.2lb		80kg 176.4lb		According to clients microscope

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