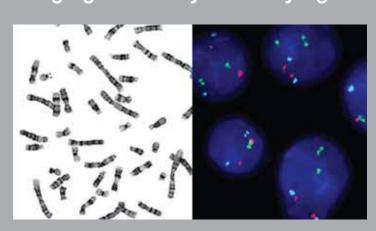
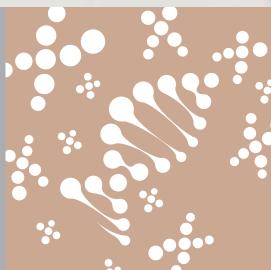


# CytoPower

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:

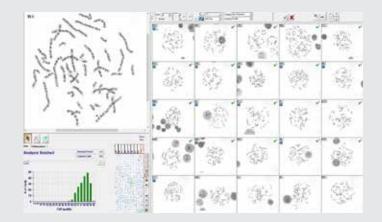
Scan >>> Analyze >>> Review >>>> Report >>>> Complete!



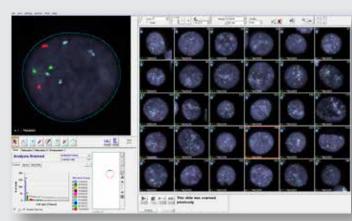


Digitize your slides for onscreen analysis and case management. Capture both metaphase and interphase cells for analysis

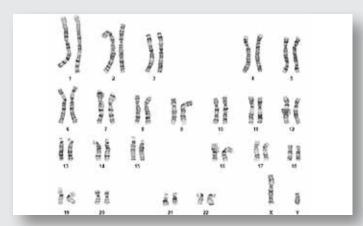




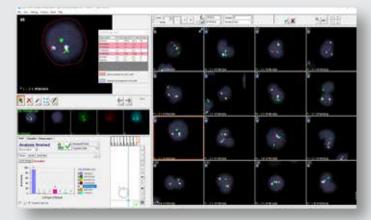
All in one platform to analyze chromosomes and classify cells



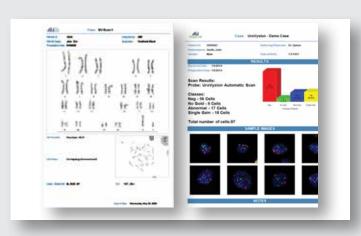




Click of a button karyotype and realtime statistical results on signals



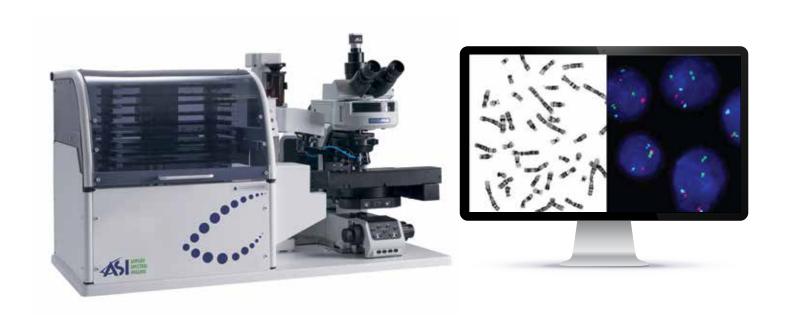




Submit comprehensive case details

# 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.

# **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.

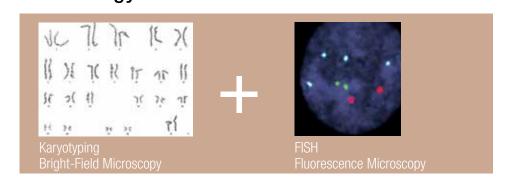
#### **Fully Automated**



#### 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:



**Diagnostics** 

**Treatment** 

# Digital Chromosome Analysis You Can Rely On

# **Comprehensive Working Platform**



Efficiency, Precision, Versatility

# State of the Art Image Quality Start & Walkaway Scanning



High resolution 5MP 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

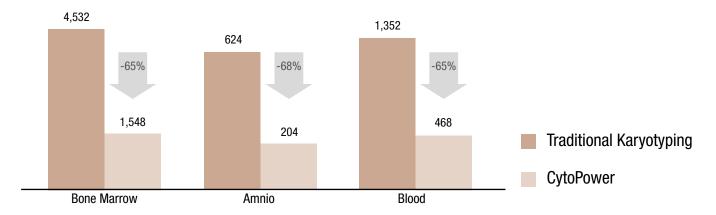
Bone Marrow 

Amniotic Fluid

CVS

# **Increased Lab Productivity**

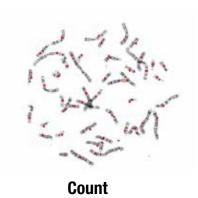
#### **66% Technologist Time Savings** (Hours / Month)



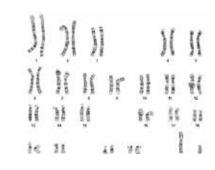
✓ Blood

Free technologist time to where their expertise is needed most

#### **Feature Rich Review & Analysis**







Accurate automatic chormosome counting

**Analyze**Fast and easy chromosome indexing and classification

Karyotype

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



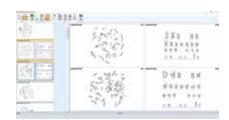








#### **Advanced Onscreen Supervisor or Director Review**



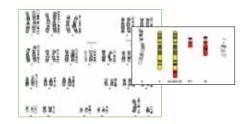
#### Image Gallery

Display of all case metaphases and karyotypes



#### **Chromosome Compare**

All captured cells and chromosomes side by side



#### Aberrant Ideogram

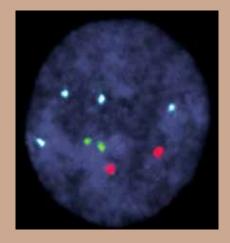
Chromosomes, cells, ideograms and annotations in an image generator

<sup>\*</sup> 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

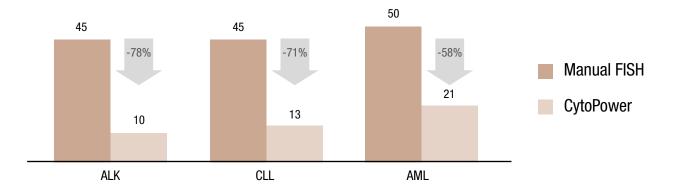


"Digital FISH analysis provides more efficient and accurate results and better patient care in comparison to traditional FISH methods."

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

# Workflow Efficiencies for Increasing Test Volumes

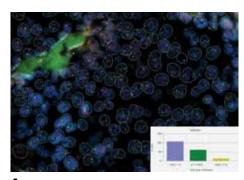
Over 55% Time Savings (Minutes / Case)



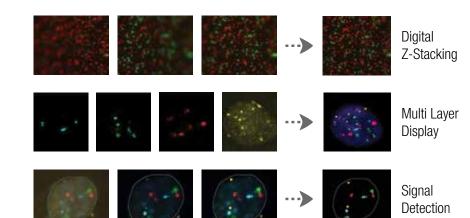
# **In-depth Cell Analysis**



#### **Increased Diagnostic Confidence**



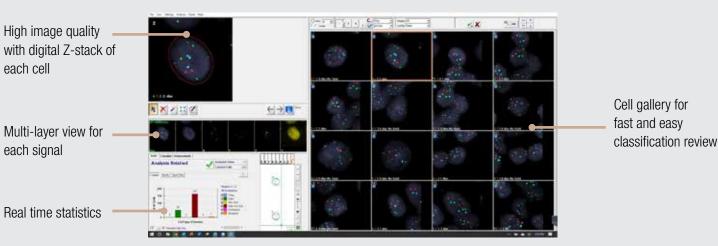
Accuracy
Automated cell/ signal detection and classification for consistent reliable results



#### **Easy Classification & Review**



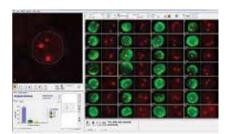




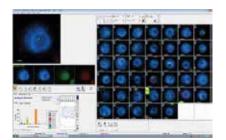
<sup>\*</sup> FDA cleared for BandView, FISHView, SpotScan for CEP XY, UroVysion, ALK and HER2/neu FISH

# **CytoPower for Research Applications**

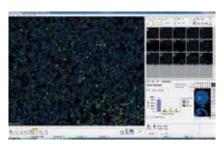
# FISH Research



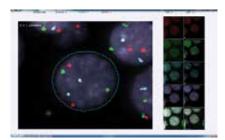
Circulating Tumor Cells



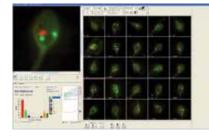
clgFISH



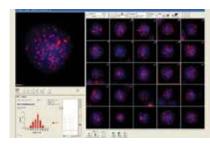
Immuno Fluorescence



Successive Staining

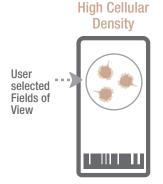


Sperm Cells



Telomeres

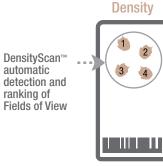
#### Scanning Protocols for All Probes, Samples and Preparation Techniques



Semi Automated

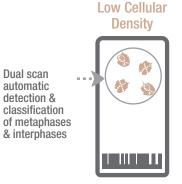


Fully Automated



Fully Automated

Low Cellular



Fully Automated

# \*HiSKY for Test Assurance

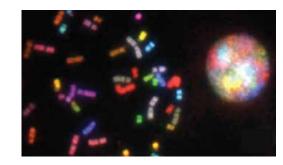
#### \*HiSKY

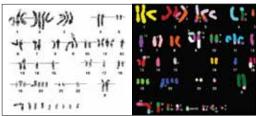
Gold Standard Spectral Karyotyping

#### Multi-Color FISH Analysis for Result Verification

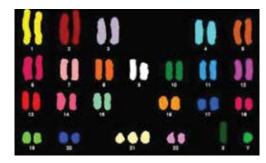
- ✓ Automatic identification of translocations and chromosomal origins
- ✓ Simultaneous detection of chromosomal aberrations in one hybridization
- ✓ Measurement of entire spectrum at each point













Ewing Sarcoma

\*HiSKY is an add on application for research purposes

User pre-

scanning

configured

pattern and

stop criteria

#### **Quality Control of Probe Assays**

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

#### **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

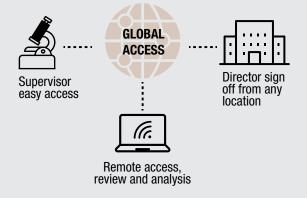
Case Data Management (CDM)

## Work from Home!

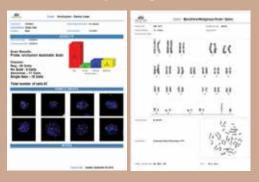
# GenASIs AnyWhere<sup>™</sup> for **Remote Access**

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**

**HIPAA Compliant** 

# Become a Data-Driven Lab with LabLife

## NEW

# **Generate lab performance statistics** LabLife<sup>™</sup> 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



# **Click for Atlas**

Reference Atlas for higher assurance



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**

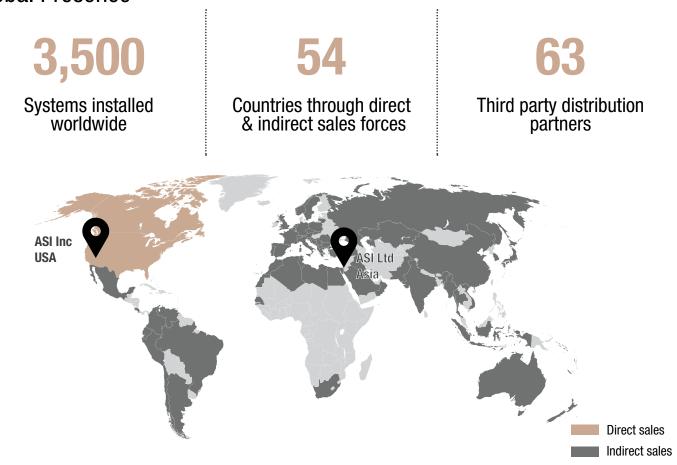
Applied Spectral Imaging (ASI) is a global leader in biomedical imaging with a comprehensive product portfolio and a global distribution footprint.

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.

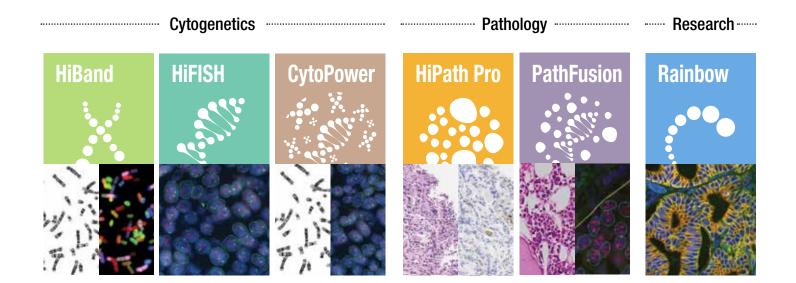
The Company has offices in the US and Asia and a global network of distribution partners.

#### **Global Presence**

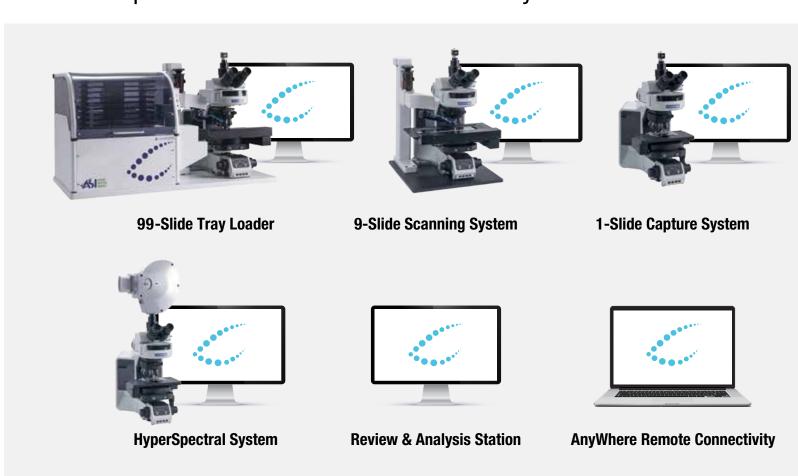


# The Company's Product Portfolio

#### **Exceptional Imaging & Analysis Solutions for Laboratories**



#### Diverse platforms to accommodate all laboratory needs



# **System Specifications**





	-gam		46		12.71		The last
	Manual 1 Slide		9 Slide Motorized Stage		99 Slide Tray Loader		HyperSpectral 1 Slide
Microscope Support	BF and FL upright microscopes		OLYMPUS BX61 BF + FL OLYMPUS BX63 BF+ FL ZEISS Axiolmager Z2 BF+ FL		OLYMPUS BX61 BF + FL OLYMPUS BX63 BF+ FL ZEISS Axiolmager Z2 BF+ FL		BF and FL upright microscopes
Objectives	Olympus 10x/0.3NA 60x/1.25NA 100x/1.3NA	ZEISS 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		5MP CMOS Monochrome		5MP CMOS Monochrome		Spectral 1.3MP Monochrome
Slide Capacity	1 slide (Manual or Motorized)		9 slides		99+ slides		1 slide (Manual or Motorized)
Barcode Reader	Handheld 1D/2D		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 x 69cm x 85cm (24" x 27.2" x 33.5")		100cm x 90cm x 90cm (39.4" x 35.5" x 35.5")		According to clients microscope
Weight	According to clients microscope		45kg 99.2lb		80kg 176.4lb		According to clients microscope

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