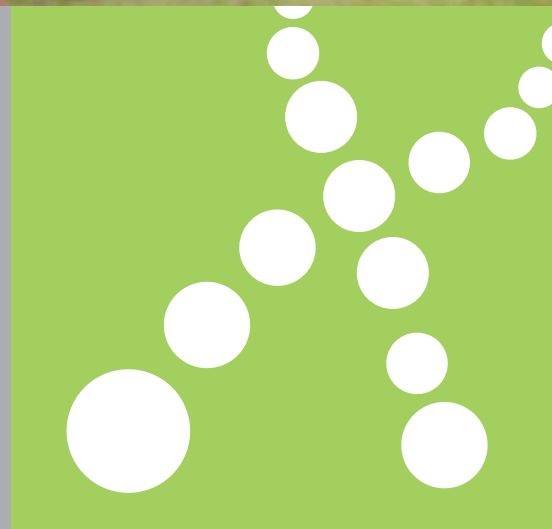




Every  
Diagnosis  
Counts

# HiBand

Digital Chromosome Analysis



POWERED BY  
**GENASIS**

**ASI** APPLIED  
SPECTRAL  
IMAGING

# Digital Chromosome Analysis System

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## Automated Scanning

- Automatic metaphase finding
- High resolution image acquisition
- Start & walkaway

## Digital Karyotyping

- Powerful algorithms for accurate karyotyping
- Superb image quality
- Fast and easy separation of chromosomes

## View, Manage & Share

- Integrated patient database & LIS connectivity
- Advanced reporting tools
- Remote access



Cutting-edge imaging and analysis for digital karyotyping



## Optimized Productivity

Automated workflows, digital analysis and full integration maximize lab efficiencies



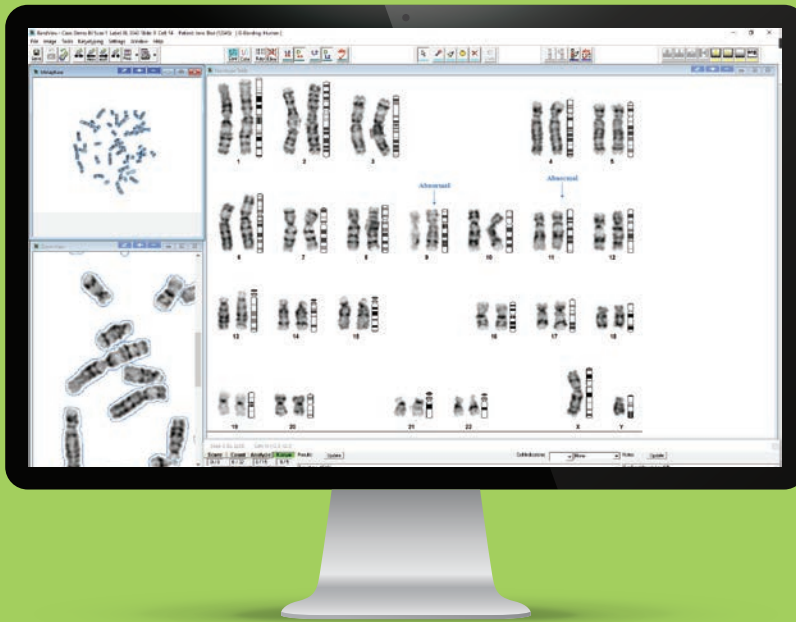
## Diagnostic Confidence

Superb image quality, powerful algorithms and feature rich software ensure results accuracy



## Multi Application

A broad sample and staining menu that meets the full range of demands of cytogenetic labs



**“HiBand doubled our lab productivity in Bone Marrow samples and tripled our productivity in Blood samples.”**

Nettie Rietema, University Medical Center Groningen, NL

# Automatic Slide Scanning

Efficiency, Precision, Versatility

## Image Quality Driven to the Max!

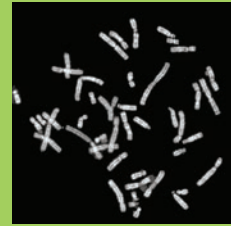


High resolution 4MP camera sensor combined with a high quality 100x immersion oil objective

### Broad Staining and Sample Menu



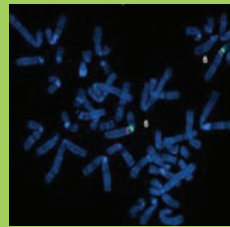
G-Band



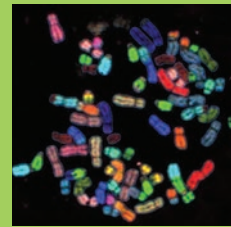
Q-Band



R-Band



FISH



Spectral

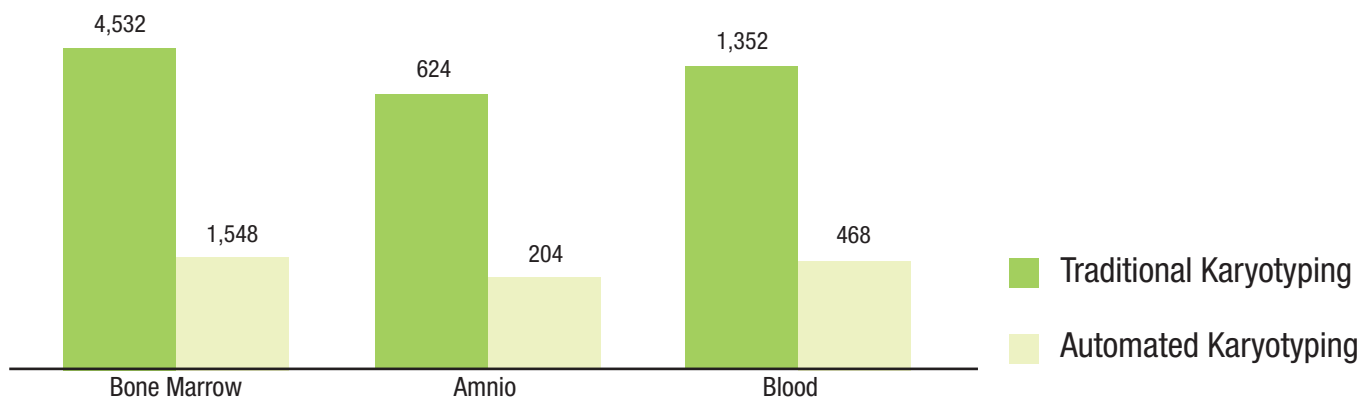


R-Band

✓ Blood ✓ Bone Marrow ✓ Amniotic Fluid ✓ CVS

## Increased Lab Productivity

**66% Technologist Time Saving** (Hours / Month)



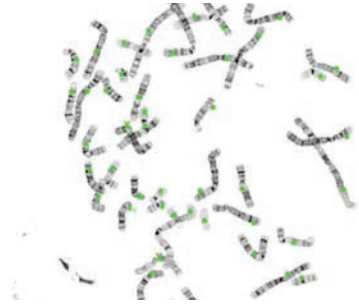
Free technologist time to where their expertise is needed most

# Digital Chromosome Analysis



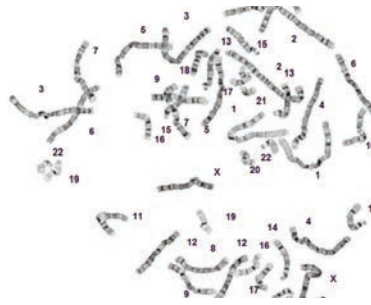
Quality, Accuracy, Ease-of-Use

## Feature Rich Review & Analysis



### Count

Accurate automatic chromosome counting



### Analyze

Fast and easy chromosome indexing and classification

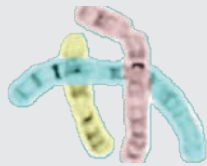


### Karyotype

Easy separation of chromosomes and advanced image enhancement

## Easy Separation and Boundary Editing

“Magic Tool” combining 12 operations in a simple mouse click



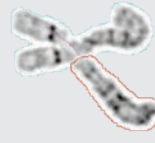
Overlap



Split



Extend

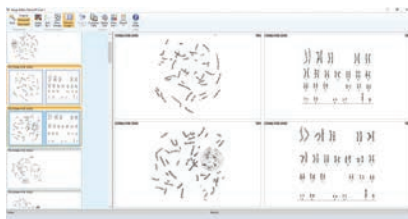


Combine



Saves hundreds of mouse-clicks per karyotype!

## Advanced Onscreen Supervisor Review



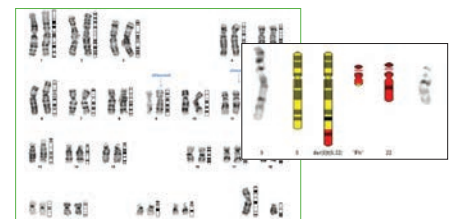
### Image Gallery

Display of all case metaphases and karyotypes



### Chromosome Compare

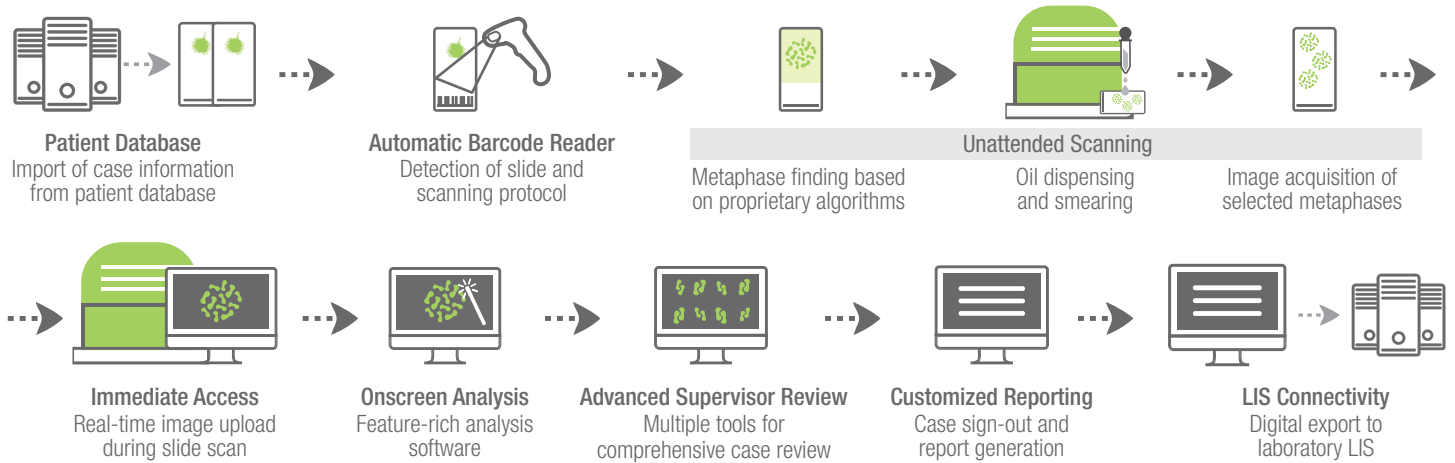
All captured cells and chromosomes side by side



### Aberrant Ideogram

Chromosomes, cells, ideograms and annotations in an image generator

# Fully Automated Workflow



## HiSKY

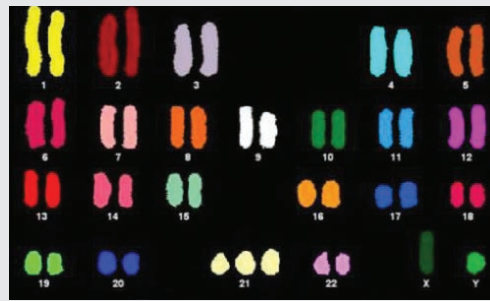
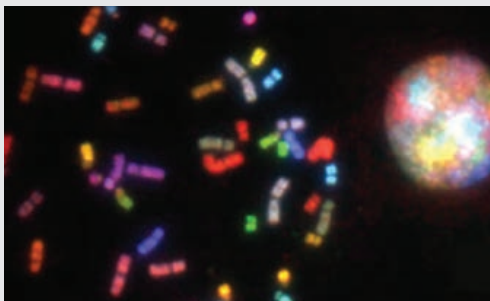
### Gold Standard Spectral Karyotyping

### Multi-Color FISH Analysis for Result Verification

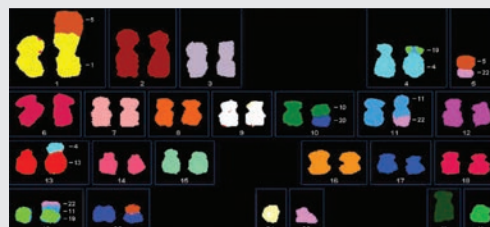
- ✓ Automatic identification of translocations and chromosomal origins
- ✓ Simultaneous detection of chromosomal aberrations in one hybridization
- ✓ Measurement of entire spectrum at each point



**HiSKY Probe Kit**  
Chromosome paints for human, mouse and rat



Brain Tumor



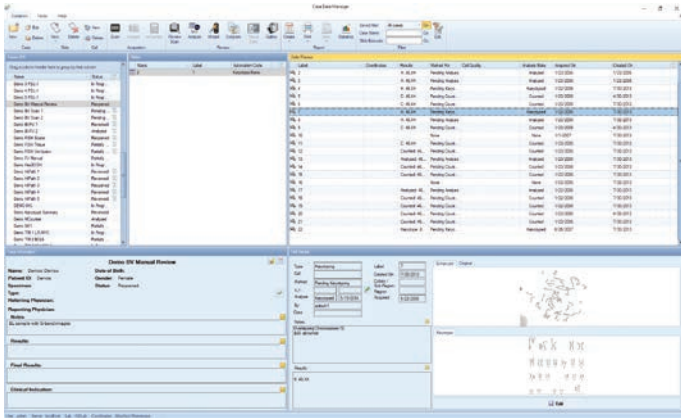
Ewing Sarcoma

\*HiSKY is intended for research use only

# Data Management and Connectivity

Modern Paperless Workflow

## Central Portal and Database Easily Integrates with Lab LIS



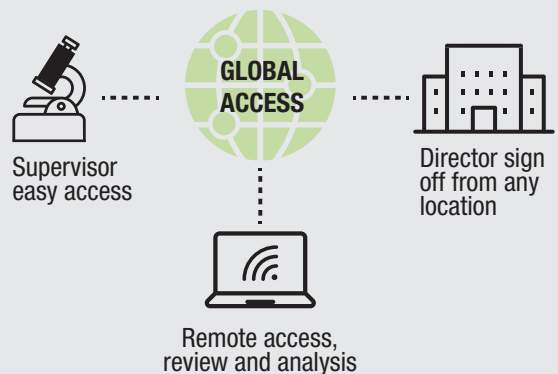
Case Data Management (CDM)

- ✓ Efficient
- ✓ Comprehensive
- ✓ Eliminates human error

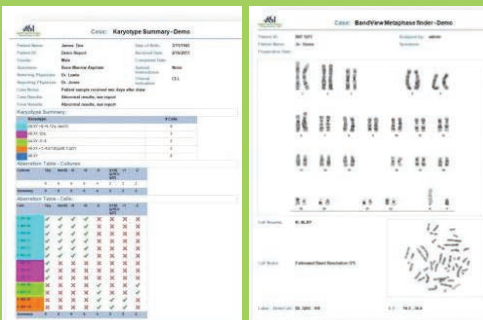
## GenASIs AnyWhere™ for Remote Access

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



	Manual 1 Slide	9 Slide Motorized Stage	99 Slide Tray Loader	HyperSpectral 1 Slide
Microscope Support	BF upright microscopes	OLYMPUS BX61 OLYMPUS BX63 ZEISS Axiolmager Z2	OLYMPUS BX61 OLYMPUS BX63 ZEISS Axiolmager Z2	BF and FL upright microscopes
Objectives	10x/0.3 100x/1.3	1.25x/0.04 (Optional) 10x/0.3 100x/1.3	1.25x/0.04 (Optional) 10x/0.3 100x/1.3	10x/0.3 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 PLUS	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]	20cm x 60cm x 50cm	45cm x 90cm x 85cm	100cm x 90cm x 85cm	28cm x 44cm x 85cm
Weight	8kg	54kg	82kg	20kg

North America  
 Applied Spectral Imaging Inc.  
 Tel: +1 760 929 2840  
[sales-inc@spectral-imaging.com](mailto:sales-inc@spectral-imaging.com)

Headquarters  
 Applied Spectral Imaging Ltd.  
 Tel: +1 817 886 6031  
[sales@spectral-imaging.com](mailto:sales@spectral-imaging.com)



[www.spectral-imaging.com](http://www.spectral-imaging.com)