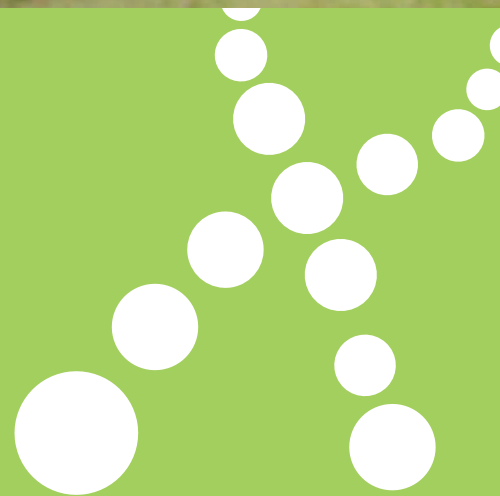




Every  
Diagnosis  
Counts

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



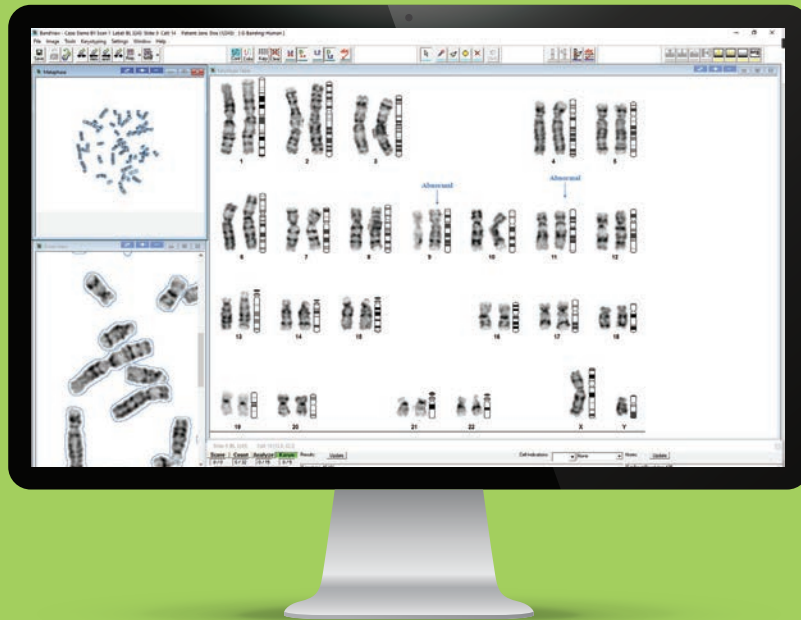
## Diagnostic Confidence

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!

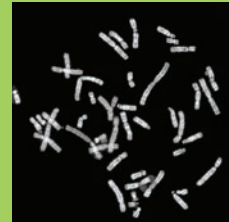


High resolution 4MP camera sensor combined with a high quality 100x immersion oil objective

### Broad Staining and Sample Menu



G-Band



Q-Band



R-Band



FISH



Spectral

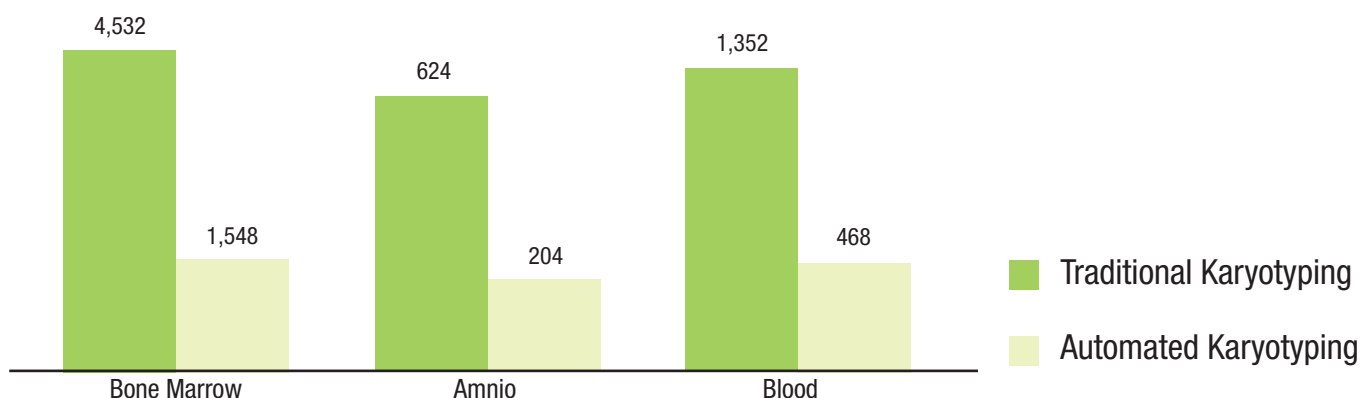


R-Band

✓ 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

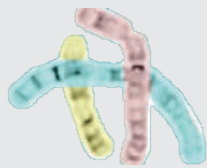


### Karyotype

Easy separation of chromosomes and advanced image enhancement

## Easy Separation and Boundary Editing

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



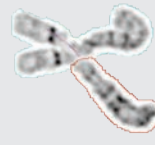
Overlap



Split



Extend

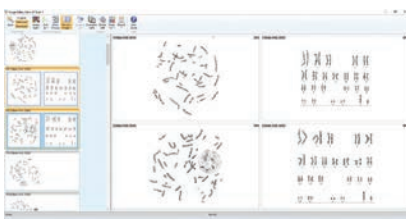


Combine



Saves hundreds of mouse-clicks per karyotype!

## Advanced Onscreen Supervisor Review



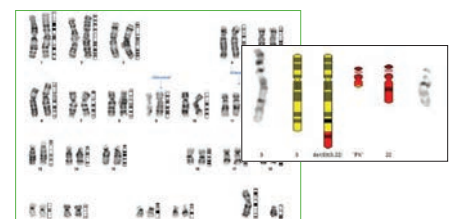
### Image Gallery

Display of all case metaphases and karyotypes



### Chromosome Compare

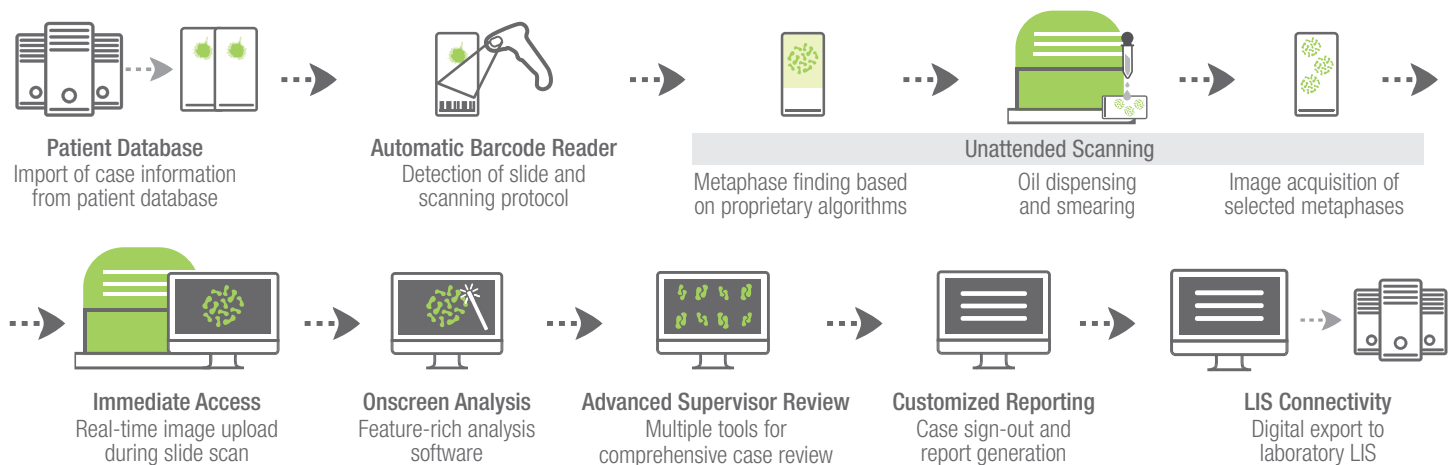
All captured cells and chromosomes side by side



### Aberrant Ideogram

Chromosomes, cells, ideograms and annotations in an image generator

# Fully Automated Workflow



## HiSKY

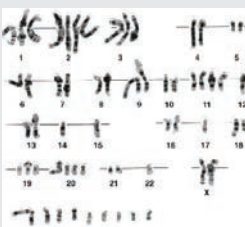
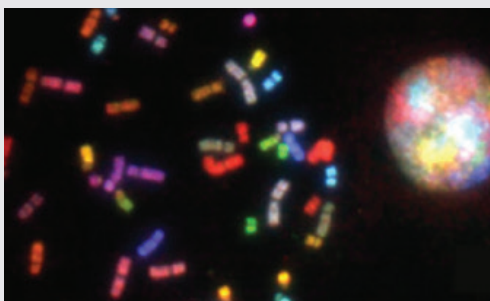
### Gold Standard Spectral Karyotyping

### Multi-Color FISH Analysis for Result Verification

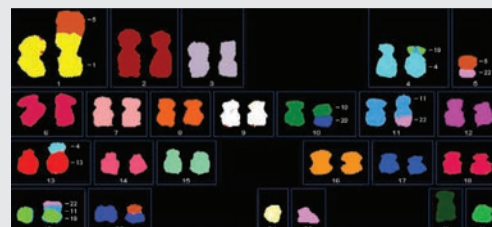
- ✓ Automatic identification of translocations and chromosomal origins
- ✓ Simultaneous detection of chromosomal aberrations in one hybridization
- ✓ Measurement of entire spectrum at each point



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



Brain Tumor

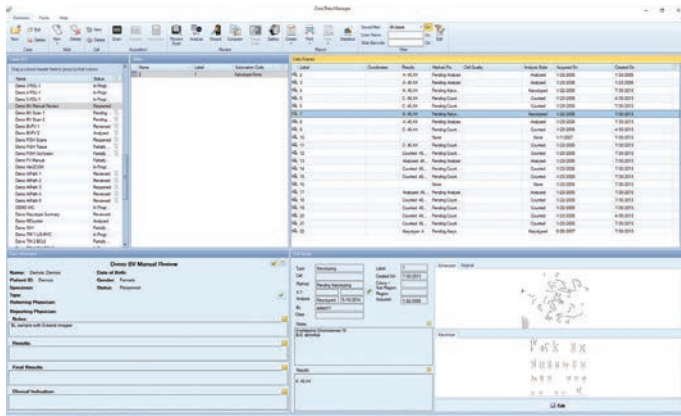


Ewing Sarcoma

# Data Management and Connectivity

Modern Paperless Workflow

## Central Portal and Database Easily Integrates with Lab LIS



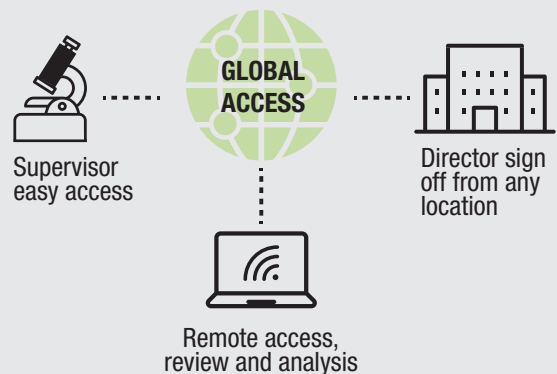
Case Data Management (CDM)

- ✓ Efficient
- ✓ Comprehensive
- ✓ Eliminates human error

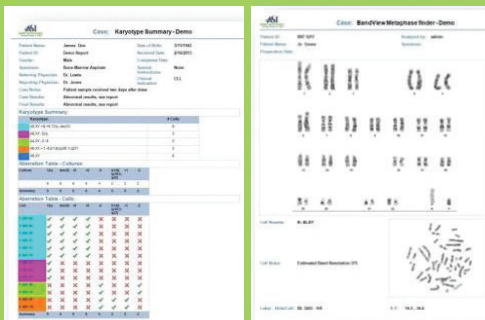
## GenASIs AnyWhere™ for Remote Access

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
<b>Microscope Support</b>	BF upright microscopes	OLYMPUS BX61 OLYMPUS BX63 ZEISS Axiolmager Z2	OLYMPUS BX61 OLYMPUS BX63 ZEISS Axiolmager Z2	BF and FL upright microscopes
<b>Objectives</b>	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
<b>Camera</b>	5MP CMOS Monochrome	5MP CMOS Monochrome	5MP CMOS Monochrome	Spectral 1.3MP Monochrome
<b>Slide Capacity</b>	1 slide (Manual or Motorized)	9 slides	99 slides PLUS	1 slide (Manual or Motorized)
<b>Barcode Reader</b>	Handheld 1D/2D	Handheld 1D/2D	Integrated 1D/2D	Handheld 1D/2D
<b>Automated Oil Dispenser</b>	N/A	Optional	Integrated	N/A
<b>Dimensions [WxDxH]</b>	20cm x 60cm x 50cm	45cm x 90cm x 85cm	100cm x 90cm x 85cm	28cm x 44cm x 85cm
<b>Weight</b>	8kg	54kg	82kg	20kg

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