Every Diagnosis Counts

HiBand

Artificial Intelligence based Chromosome Analysis and Karyotyping Solution
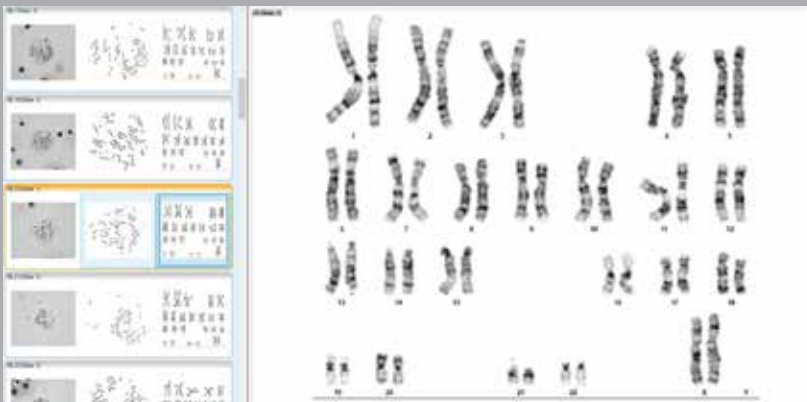
A Novel End-to-End Automated Cytogenetic Workflow for High Throughput Karyotyping

Digitize slides, analyze chromosomes and karyotype in a click of a button

For the accurate identification of genetic abnormalities and cancers

1 Scan & Capture

Digitize your slide. Metaphase Finder identifies the best cells for analysis.

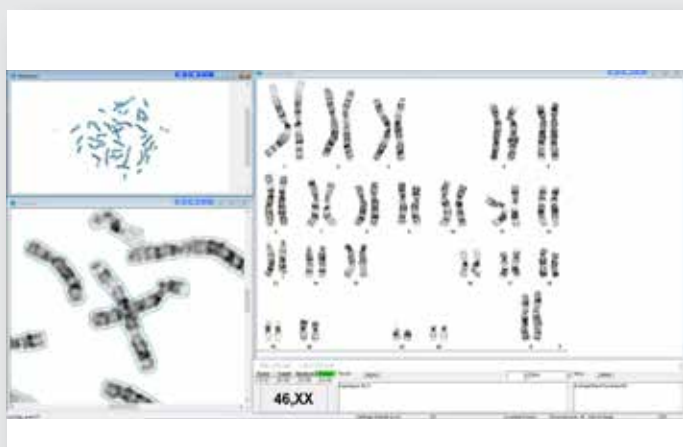## 2 Preview

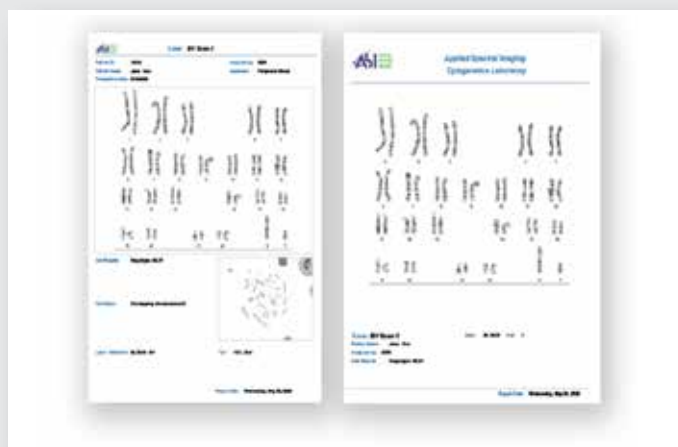Successfully segmented and karyotyped metaphases are available for review and approval while scanning.

3

Approve Analysis

Karyotype at a click of a button based on AI features analysis.

4

Report

Submit a customized report with full case details.

Digital Chromosome Analysis System

Optimized Productivity

Fully automated workflow, digital AI features analysis and full integration maximize lab efficiency

Diagnostic Confidence

Smart scanning, superb image quality and powerful algorithms

Turnaround Time

is significantly reduced

Cutting edge scanning, imaging and analysis instrumentation using AI features for high throughput

"HiBand doubled our lab productivity in Bone Marrow samples and tripled our productivity in Blood samples."

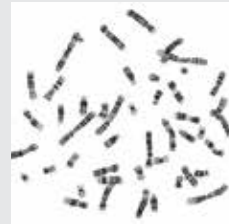Nettie Rietema, University Medical Center Groningen, NL

Automatic Slide Scanning and Metaphase Finder

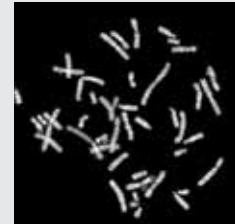## Classifier Captures the Best Metaphases for Analysis

High resolution 5MP camera sensor combined with a high quality 100x immersion oil objective

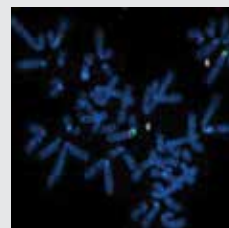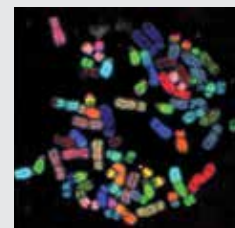### Broad Staining and Sample Menu

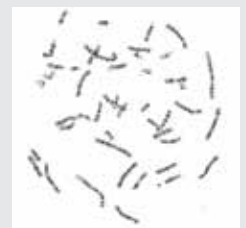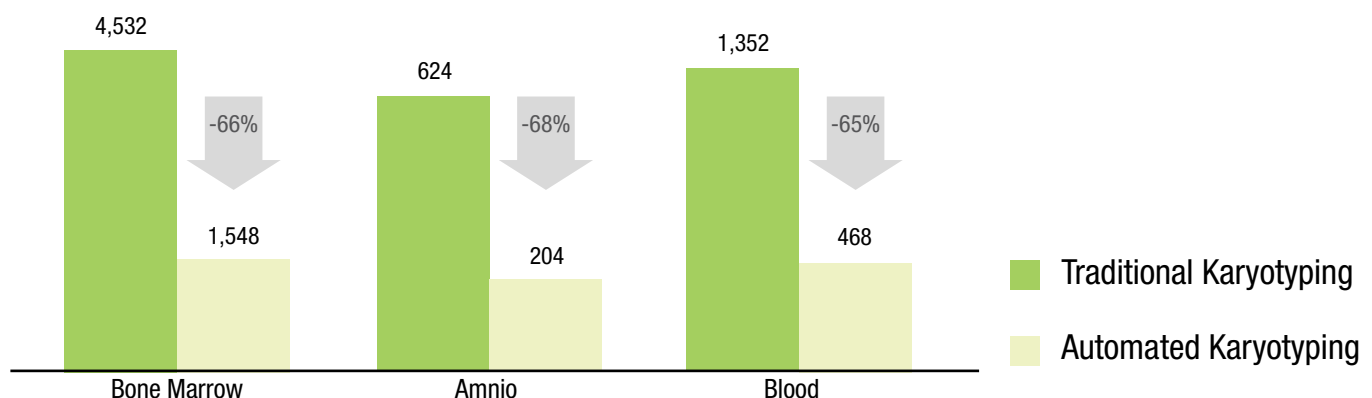| G-Band	Q-Band	R-Band FL
FISH	Spectral	R-Band

✓ Blood   ✓ Bone Marrow   ✓ Amniotic Fluid   ✓ CVS

Increased Lab Productivity with Digital Karyotyping

66% Technologist Time Saving (Hours / Month)

- 4,532 — Bone Marrow (Traditional) → -66% → 1,548
- 624 — Amnio (Traditional) → -68% → 204
- 1,352 — Blood (Traditional) → -65% → 468

Traditional Karyotyping
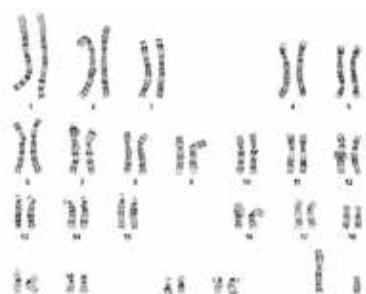
Automated Karyotyping

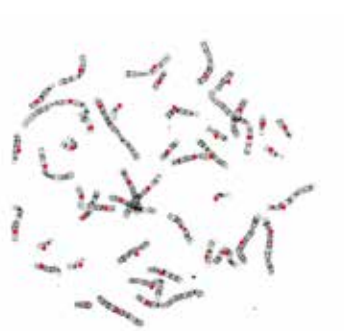Free technologist time to where their expertise is needed most

Feature Rich Review & Analysis

Functional Tools for Accurate Analysis- Quality, Accuracy, Ease-of-Use

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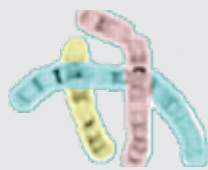

Count
Accurate automatic chormosome counting

Analyze
Fast and easy chromosome indexing and classification

Easy Separation and Boundary Editing

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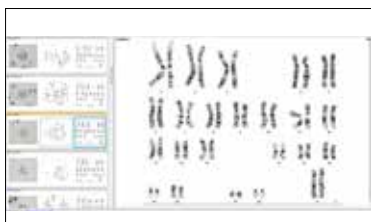

Overlap
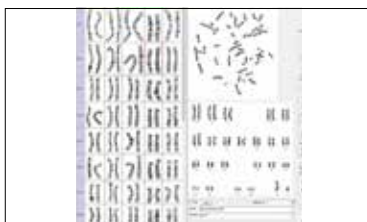

Split

Extend

Combine

Saves hundreds of mouse-clicks per karyotype!

Advanced Onscreen Supervisor or Director Review
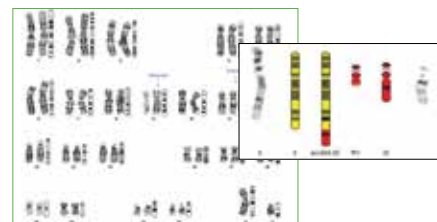

Image Gallery
Display of all case metaphases and karyotypes

Chromosome Compare
All captured cells and chromosomes side by side

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

Reference Atlas for higher assurance

Internet toolbar with selection of predefined karyotyping websites, provides the expert support you need to investigate, research, and confirm challenging abnormalities.

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

Chromosome Compare
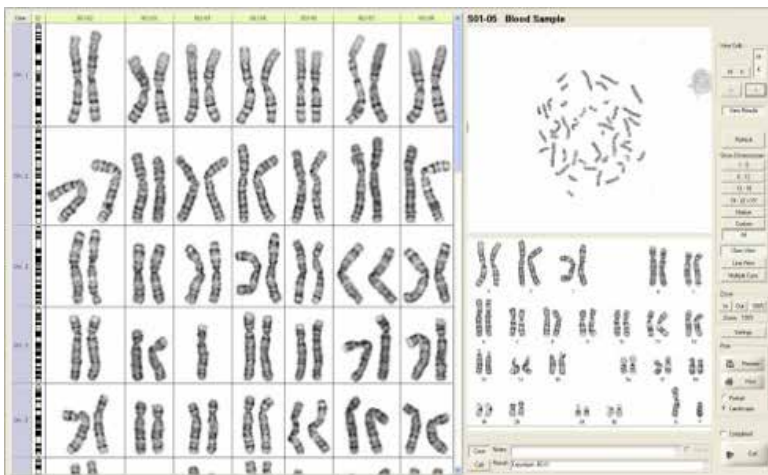
- ✓ Compare chromosomes within and between cases

- ✓ Display homolog chromosomes either by row or column view

- ✓ View chromosomes by groups or custom view

- ✓ Navigate to view all cells associated within the case

- ✓ Side-by-side G-band, FISH and HiSKY chromosome views

Data Management and Connectivity

Modern Paperless Workflow

Central Portal and Database
Easily Integrates with Lab Information System (LIS)
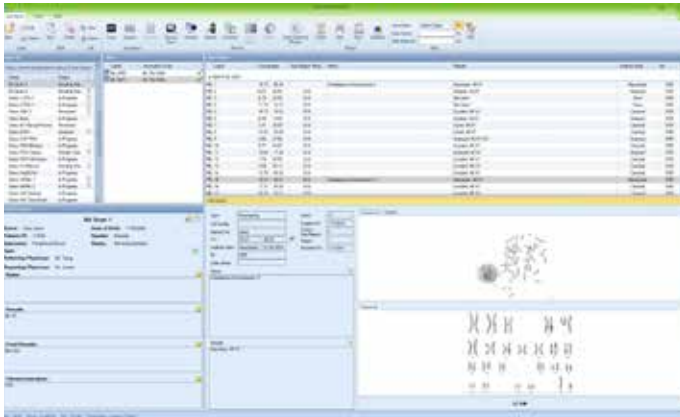
Case Data Management (CDM)

- ✓ Efficient
- ✓ Comprehensive
- ✓ Eliminates human error

Become a Data-Driven Lab with LabLife™

Generate lab performance statistics

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

GenASIs AnyWhere™

A Virtual Laboratory

GenASIs™ AnyWhere is Applied Spectral Imaging's complete remote access solution enabling HIPAA-compliant access, review, analysis, and sign-off of cases from any location, via a secure link to your lab's GenASIs platform.

In today's world, working remotely has become a necessity.

- Optimal for remote consultation, educational and training needs
- Uncompromised data security
- Efficient management and maintenance of multiple systems, and users
- Distance-bridging for multi-site and geographically distributed organizations
- Increases productivity and reduces turnaround time

Advanced Reporting

1D/2D Barcode Reader

LIS Connectivity

- Performance
- Security
- Data Integrity
- HIPAA Compliant

ASI Company Overview

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 90 countries. 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.

ASI's wide FDA clearance portfolio includes: FDA clearance for BandView, FISHView, SpotScan for CEP XY, UroVysion, ALK and HER2/neu FISH, and for HiPath IHC Family for HER2, ER, PR, and Ki67, on the manual configuration

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

Global Presence

4,500	86	71
Systems installed worldwide	Countries through direct & indirect sales forces	Third party distribution partners

ASI Inc USA

ASI Ltd Asia

Direct sales
Indirect sales

The Company's Product Portfolio

Imaging & Analysis Solutions for Laboratories

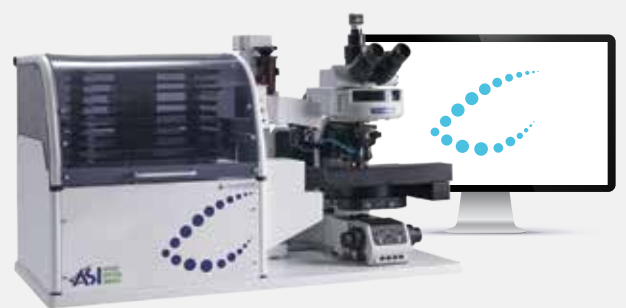| Cytogenetics			Pathology		Research
HiBand	HiFISH	CytoPower	HiPath Pro	PathFusion	Rainbow
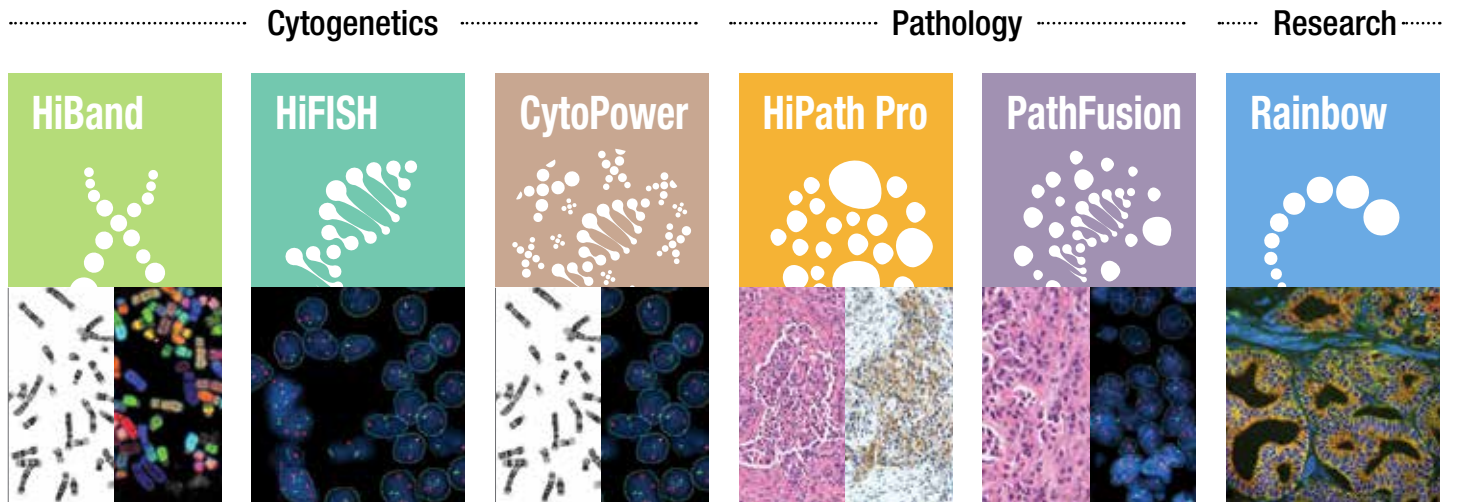
Diverse platforms to accommodate all laboratory needs

1-Slide Capture System

9-Slide Scanning System

99-Slide Tray Loader

HyperSpectral System

Review & Analysis Station

AnyWhere Remote Connectivity

System Specifications

	Manual 1 Slide	9 Slide Motorized Stage	99 Slide Tray Loader
Microscope Support	BF upright microscopes	OLYMPUS BX61 BF OLYMPUS BX63 BF ZEISS AxioImager Z2 BF	OLYMPUS BX61 BF OLYMPUS BX63 BF ZEISS AxioImager Z2 BF
Objectives	10x/0.3 NA 100x/1.3 NA	1.25x/0.04 NA (Optional) 10x/0.3 NA 100x/1.3 NA	1.25x/0.04 NA (Optional) 10x/0.3 NA 100x/1.3 NA
Camera	5MP CMOS Monochrome	5MP CMOS Monochrome	5MP CMOS Monochrome
Slide Capacity	1 slide (Manual or Motorized)	9 slides	99+ slides
Barcode Reader	Handheld 1D/2D	Handheld 1D/2D	Integrated 1D/2D
Automated Oil Dispenser	N/A	Optional	Integrated
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")
Weight	According to clients microscope	45kg 99.2lb	80kg 176.4lb

SCAN ME
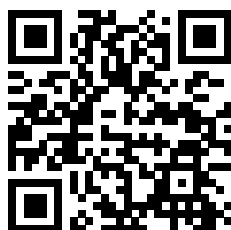
APPLIED SPECTRAL IMAGING

www.spectral-imaging.com